



**Oriental Institute of Science & Technology, Bhopal**

# THE ORIENTAL BUZZ

**MAY, 2021**



**EDITION-II**



Heartfelt condolences

*Dr. K. L. Thakral*

(October 19th, 1929 - April 25th, 2021)

With tremendous grief and reverence,  
The Oriental family pays homage to the departed soul!

# A TRIBUTE TO THE GREAT VISIONARY LEGEND

Dr. K. L. Thakral was born on 19th October 1929 in Punjab (now a part of Pakistan). He migrated to India, in 1947 and after facing tremendous hardships and struggle, he completed his Masters in Arts in History from Meerut College, Meerut in 1955. He then settled in Bhopal, with his family in 1960.

It is with a deep sense of sorrow that we pay our heartfelt tribute and homage to **Hon'ble Dr K. L. Thakral Sir**, our beloved founder Chairman of Oriental Group of Institutes, a towering personality in the field of education, who left for the heavenly abode on 25th April, 2021. He leaves behind him a legacy of qualities of a great educationist. Today, even after his demise, he doesn't fail to inspire us with all the achievements he made in his life even after facing so many hardships that he had to.

**He was awarded about 9 international and  
21 national awards like:**

- International Socrates Award in the field of Education from Europe Business Assembly, Oxford, Great Britain (U.K.) (2013)
- Doctor of Literature from the International University for Complementary Medicines, Colombo - Sri Lanka (2013)
  - Shiksha Bharti Purushkar
    - Jewel of India Award
    - The Glory of India Award
  - and many more.

Sir K. L. Thakral taught us how determination and eagerness to learn and grow can take a person to different heights. Sir was **President of Industries'** Association, Bhopal for three times and contributed substantially to the establishment of industries there.

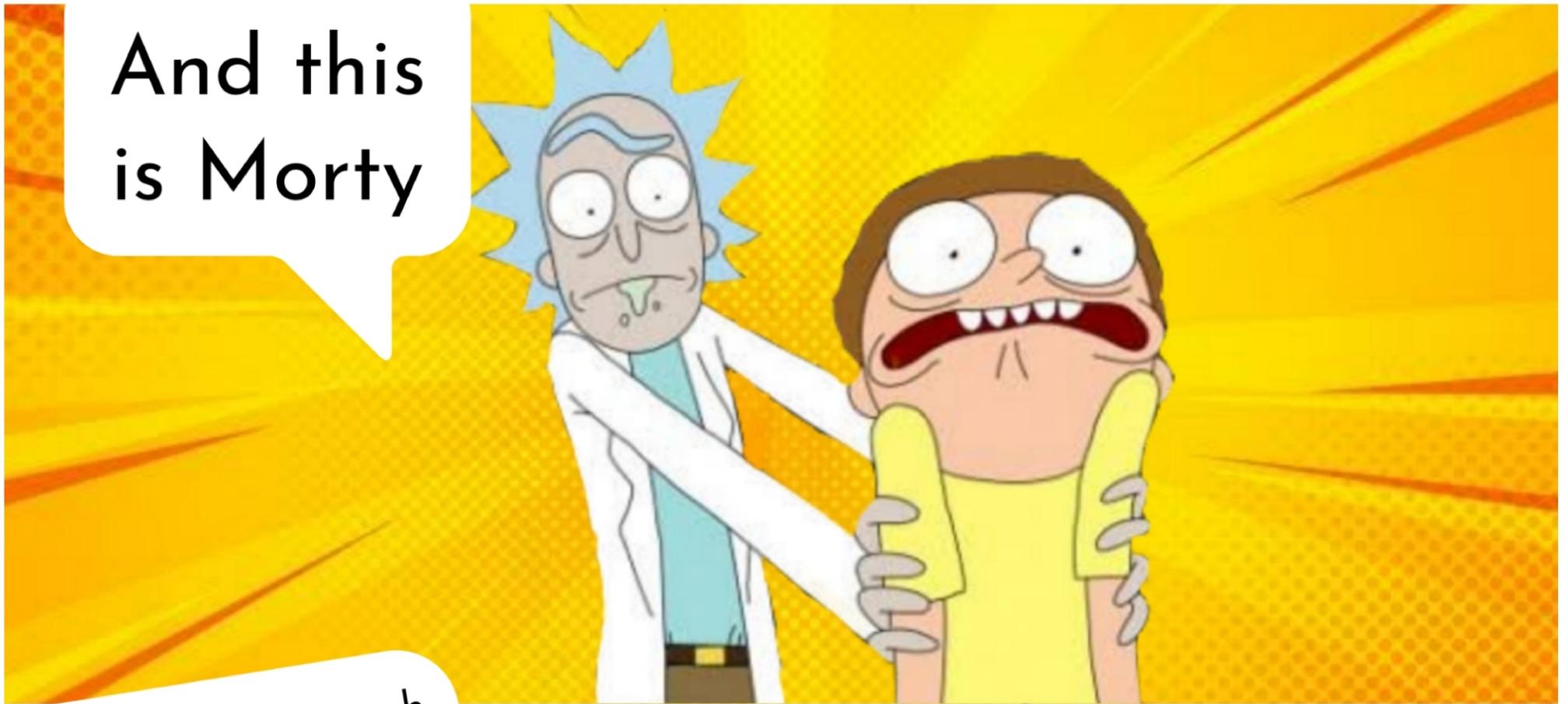
He also founded the MP Kapi Udyog Sangh.

He after attaining success in this field shifted to education in 1992. He established Oriental University, The first private University at Indore in 2011. Oriental University is one of the most reputed universities today. He was committed to the cause of improving the quality of education in India. His endeavour was to enrich the young minds to pursue a profession of excellence and commitment. He successfully managed to make the Oriental a well-known brand in higher education in our country.

"The life of one we love is never lost. It's influence goes on through all the lives it ever touched. "



Hey,  
I'm Rick!



And this  
is Morty



And I'm gonna teach  
him a few new things  
along with guiding  
you through the  
magazine

# MEET THE TEAM

## OUR PATRONS

**SHRI PRAVEEN THAKRAL**  
CHAIRMAN, OGI

**SHRI R.K. SAHNI**  
CEO, OGI

**DR. K.G. SUDHAKAR**  
DIRECTOR, OIST

**DR. RAJESH SHUKLA**  
DEAN (CSE & IT), OIST

**DR. RITU MONGA**  
HOD, BASIC SCIENCES, OIST

## GUIDANCE

**DR. SUNITA N. THAPAK**  
EDITOR & CONVENER

## LEADS

**ARYAN CHAURASIA**  
CSE AIML

**ISHAN SHARMA**  
CSBS  
LEAD CO-ORDINATOR

**PRATYUSH DIXIT**  
CSE AIML

ARTICLES

**OM GARG**  
CSE AIML

**RIYA SINGH**  
CSDS

**SANIYA AKBAR**  
CSBS

NEWS ARTICLES

**EHTESHAM AHMAD** **ISHAN CHOUBEY**  
CSE AIML EC

HUMOURS

**DEEJA SHANDILYA** **SIDHARTH SHUKLA**  
CSE AIML EC

POEMS

**NIKITA DESHMUKH** **VIKALP RATHORE** **KAMAL GAJWANI**  
CSBS IT EC

ART

**SHRISHTI SINGH**  
CSE AIML

**RICHA SHAKYA**  
EC

**NUPUR NAMDEV**  
CSDS

**SWASTI DWIVEDI**  
CSE

ACHIEVEMENTS

**NIKHIL MALVIYA**  
MECH

**RITIK MEENA**  
CSE

**SAJAL STHAPAK**  
EC

PHOTOGRAPHY

**ISHU YADAV**  
CSBS

**SANU SIMON**  
MECH



# CHAIRMAN'S MESSAGE

A good educational institution strives continuously for sustenance and enhancement of quality in every field of its activity. Stellar accomplishments expand the frontiers of knowledge and scholarship every day. With resistance and diligence laced with knowledge and intellect, one can soar to any extent one desires.



Today the need for being proactive and constructive is more acute than ever before due to the sweeping changes influencing every aspect of our life. Therefore, there is need for action based on holistic training of youth to take on varied challenges of life.

As OIST works diligently to realize its mission of providing the best learning, teaching and research opportunities to students and academicians alike, it continues to supply students with the basics of modern knowledge and high values. Amongst students' creativity, collective work and competition domestically, regionally and internationally thrive. OIST stands committed to the practice of academic freedom and encourages co-curricular activities as it continues to attract students and faculty.

I congratulate the students for the second edition of their magazine and extend my heartfelt appreciations to the entire team for all of their efforts.

Shri Praveen Thakral  
Chairman, Oriental Group



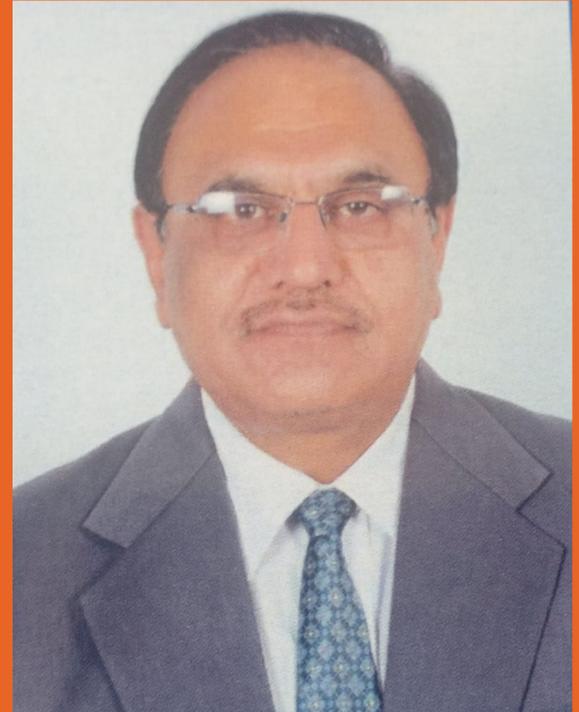
# CEO'S MESSAGE

It gives me immense pleasure to note that Oriental Institute of Science and Technology Bhopal is continuing with its endeavor of taking out students' magazine 'The Oriental Buzz'.

College magazines have great educational values as they are source of inspiration for students and faculty members to express their creativity. OIST has a long and commendable tradition of nurturing talents and working for the overall growth of the students.

Congratulations to editorial team who shaped this magazine and to those all who are instrumental in bringing out this piece of work.

Shri R.K. Sahni  
CEO, Oriental Group





# DIRECTOR'S MESSAGE

Communication, specifically in black and white, best describes the capabilities of a person to Express his creative and innovative skills. This is especially true in engineering profession and one's capability and capacity to effectively communicate to the best comprehension of others actually determines his/her grip and grasp over their success in education.



I am happy to know the youngest student community of OIST have taken a giant step to articulate and express their capabilities through this magazine, ofcourse under the guidance of their faculty. This itself is highly laudatory and I wish this is one small step they have taken to showcase their immense capabilities in the years to come.

I wholeheartedly congratulate them and look forward to their productive efforts while enhancing their academic performance coupled with their cocurricular skills which make them not only true professionals but also worthy professional ambassadors of OIST

I wish them all the best and look forward to their enhanced creative endeavours in future too.

**Dr. K.G. SUDHAKAR**  
Director, OIST



# DEAN'S MESSAGE

The Oriental Institute of Science and Technology is and has always been a place for great minds to come together. Our faculty members and the management take extra efforts for the betterment of the students; and now its second edition that proves time in and time out that it's not just a one way thing.



Hard work is engraved in every single bone and fiber of us Orientalites. Even through this pandemic, through all the disappointment of not being able to enjoy their first year at college, the students had successfully managed to bring forward not one but two remarkably marvelous magazines. Congratulations to all the faculty members who get to guide these incredible minds. We at OIST hope that all our future and present children learn to dream and to follow the path that leads them to turn those dreams to reality, as Dr. A. P. J Abdul Kalam once said:

*"Dream is not what you see in sleep, Dream is something which doesn't let you sleep."*

Wishing you all great success in life.  
Best of luck.  
Dr Rajesh Shukla  
Dean CSE & IT



# HOD'S MESSAGE

Shaping the fire in today's youth is a privilege that not all get to have and we at OIST have been doing it for years now. Surly, this pandemic has made things a little different and difficult but we, as a family have managed to stand strong. The sadness of the demise of our respected Founder Chairman (Babuji) will always be felt in all of our hearts but even in his absence, we will carry forward his legacy.



The future that lies ahead of you all is bright and beautiful, no matter how hard and painful the path to it is. So, my dear children, strive hard and make this journey worth it. Learn to embrace the hardships with a smile and only then will you be able to enjoy the serenity of life. This second edition of Oriental buzz proves that we can still be productive in hard times and no matter what happens, or what calamity unfolds, we are all strong to fight against it. A heartfelt congratulations to the entire team for working hard and providing us with such an amazing piece of work. Congratulations to all the students who contributed their talents and time to make this magazine a success.

Wishing you all great success in all your future endeavors.  
Best wishes.

Dr. Ritu Monga  
HOD, Basic Sciences,  
OIST



# EDITOR'S MESSAGE

It is a matter of great pride and privilege for me being a part of prestigious institute OIST. The Institute provides a platform for every student to develop their learning skills. The main thrust of the college has been to achieve human excellence to shape the personality of students through a host of extracurricular and co-curricular activities and instilling in them the moral values.



Our budding talents have expressed their thoughts, ideas, feelings, hopes, aspirations and convictions in a creative way. In fact, this is how they broaden their mental, psychological and intellectual horizons.

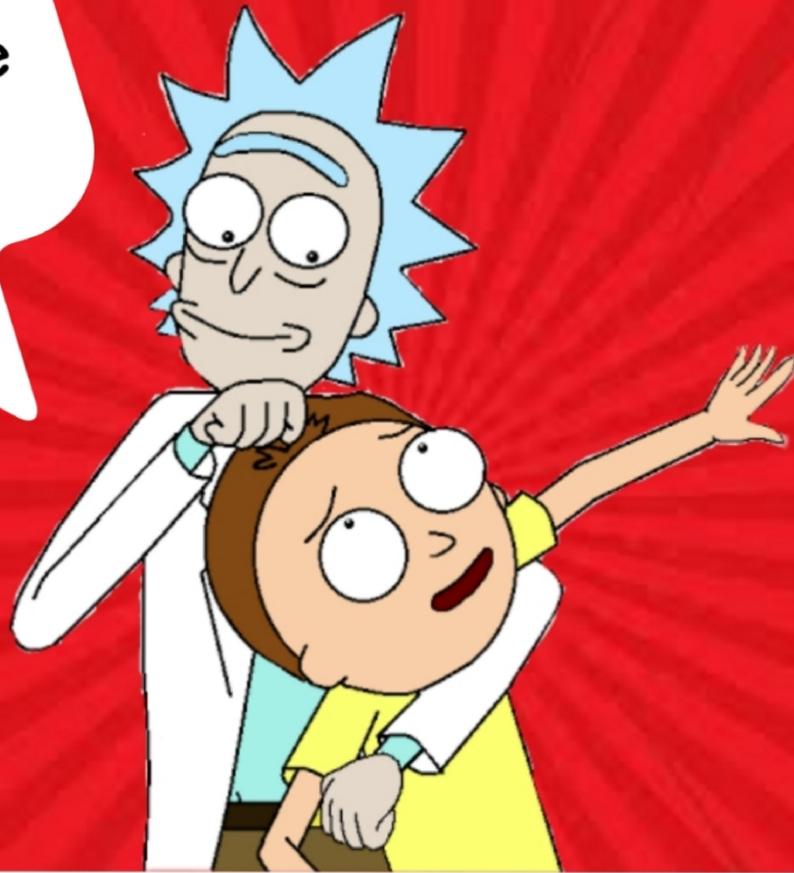
Thus, the college magazine reflects how the college has been able to live up its aims and objectives providing quality education to the students as you scan through the pages, it will enlighten you with the important mile stone e that OIST has achieved this year.

I heartly thank our hon'ble Chairman Shri Praveen Thakral, CEO Shri R. K. Sahni, and the college management for putting faith on me for this creative work. My thanks are also to our Director Dr. K.G. Sudhakar, Dean, HOD and the loving student members of the editorial board for their co operation and support and putting in their best in bringing out this second issue of our college magazine.

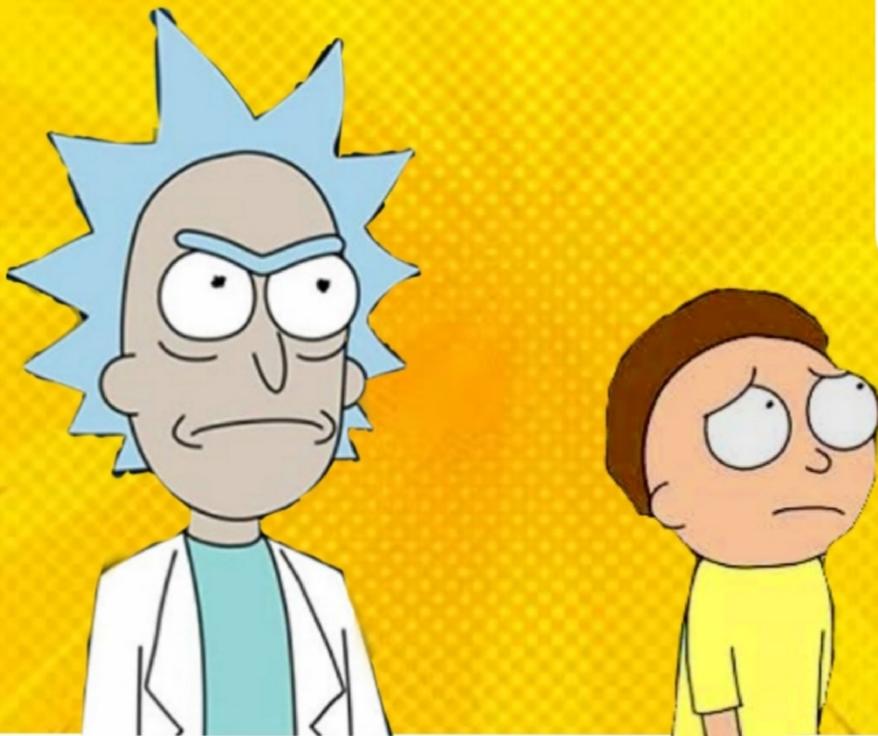
Happy Reading .....

Pro (Dr) Sunita N Thapak  
"The Oriental Buzz- April 2021"  
Editor and Magazine Convener

Hey morty!  
Let's read some  
articles!!



But Rick...  
They're  
Boring!



Not always kiddo!  
Come I'll show  
you some good  
ones!



# K-Drama Acknowledging Social Issues

BY- SANIYA AKBAR (CSBS)



Korean Dramas, more popularly known as K-Dramas have taken a huge leap in popularity amongst Indians. But the point to note here is that these dramas are not only limited to India and no matter how much racism they face, their realistic and social issue driven storyline have managed to grasp the attention of the entire world.

One of the most important social issues that is the prime focus of K-Drama is the so-called beauty standards set by the society. There are various shows like My ID is Gangnam Beauty, Beauty Inside, True Beauty, etc. which show the real embarrassment faced by women due to these social standards.

The show, 'My ID is Gangnam Beauty' focuses on the life of a girl who was bullied due to her dark complexion and acne prone face. After somehow completing her dreadful school life, the girl finally goes through plastic surgery to meet the beauty standards set by the society. But even after changing faces, she was left with past marks that made her rate other girls for their beauty and compare herself with their natural face and always be surrounded by the fear of getting recognized for having plastic surgery. The show focuses on showing the dark side of both lust for beauty in white skin and a skinny figure.

Another character in the show had severe Anorexia nervosa, a condition where the person pays a lot of attention to their weight and forcefully vomits out the food they ingested to maintain their weight.

While this show managed to grab a lot of attention and became a huge success, Korea didn't stop criticising their so-called beauty norms.

More recent shows like True Beauty once again focus on the expected beautiful face of girls and bullying in highschools. It shows the contradicting life of a girl who was once again bullied for her looks but this time, instead of opting for plastic surgery, she goes for makeup to cover her face.

While Korea in itself is known for its amazing makeup world, it still tries its best to make people aware of the fact that makeup is a choice, not compulsion.

The depth of stories chosen by K-Dramas have helped them become more and more popular all round the globe. These stories show the true embarrassment faced by people and try their best to increase awareness amongst common people.





# HACKATHON

BY- ISHAN CHOUBEY (EC)

Smart India Hackathon is a nationwide initiative to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

It is a nationwide hackathon organised by the MHRD, Govt. of INDIA. It involves all the major institutions across the country. Through Smart India Hackathon it is aimed to throw challenges to the students to think out of the box and offer innovative and disruptive digital solutions for some of

There are two edition of this hackathon :

- 1) Software
- 2) Hardware

It has three main components:

**Organizers:** The Ministry of Human Resource & Development Innovation Cell.

**Innovators:** The new minds across the country who come up with a remedy to the situation based orientation.

**Problem Statements:** By Central & State Ministries, Departments, PSUs, Industries & NGOs.

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# SMART INDIA HACKATHON

Smart India Hackathon is a non-stop digital product development competition, where problems are posed to technology students for innovative solutions. It:

- Harnesses creativity & expertise of students.
- Sparks institute-level hackathons.
- Builds funnel for 'Startup India' campaign.
- Crowd-source solutions for improving governance and quality of life.
- Provides opportunity to citizens to provide innovative solutions to India's daunting problems.



**SMART INDIA  
HACKATHON**

## Idea Submission Process

- Once problem statements are unveiled to students on the portal, they are supposed to form a team of 6 members including at least one female member as mandatory.
  - The college SPOC will first register on the SIH portal. SPOCs must upload their college authorization letter while completing the registration formalities. Please note only one SPOC is allowed to register in the portal.
  - The teams can come up with their own ideas against the problem statements and submit them to the nominated faculty or SPOC of their own college.
  - Colleges are recommended to hold Internal Hackathons (hackathon competitions at individual college level) for teams that have submitted ideas.
  - Each college who has submitted ideas for their teams and also new colleges who have not registered are invited to nominate 4 more teams.

# MODERN TECHNOLOGY IN EDUCATION

by-NUPUR NAMDEV  
(CSDS)

Technology is a gift of God. After the gift of life it is perhaps the greatest of God's gifts. It is the mother of civilizations, of arts and of sciences. Technology has certainly changed the way we live. The importance of technology in schools cannot be ignored.

The use of technology has made the process of teaching and learning all the more enjoyable. The era of 21st century is often regarded as an era of technology. Technology, today, plays a crucial role in our life. It is seen as the base of growth of an economy.

An economy which is poor in technology can never grow in today's scenario. This is because technology makes work much easier and less time consuming, thus increasing its efficiency. The impact of technology can be felt in every possible field and one such field is Education.

*According to the latest insights as to how exactly modern students of today prefer to use technology and how does their learning get an impact if they use technology, it was revealed that because of the use of modern equipment technology and tools, the learning and interactivity of students has significantly increased.*

The reliance and dependence of such an innovation, that simply makes life an easy, smooth journey is completely unavoidable. These days even in schools, universities and colleges.

**Students today can make use of technology in the following ways:**

- > Internet connection and round the clock connectivity.
- > The internet has grown in importance by many folds, over the process of decade.



Its importance in the education world can never be undermined. The use of the internet allows students to find amazing convenience, they can find various help tutorials and other kinds of assisting material which could be used to academically improve and enhance their learning.

## **USING PROJECTORS AND VISUALS:**

Visual images always have a strong appeal compared to words. Using projectors and visuals to aid in learning is another form of great technological use.

Top institutions around the world, now rely on the use of amazing PowerPoint presentations and projections in order to keep the learning interactive and interesting. Technological use such as projectors within the schools and colleges can take the interaction and interest levels right up and also improve motivation.

The use of technology and its positive impact cannot be simply dotted down in a few lines. Above were just a few of the top uses of technology in the education sector. With the tremendous growth of society and the shift to digital era, it is not wrong to say that technology is now a key factor in every sector, especially education and with its presence, education can easily be made interactive and effective for today's generation.

## **CONCLUSION**

Technology has a positive impact on education and at the same time may also pose negative effects. Teachers and students should take advantage of this in the good light and eliminate the drawbacks which are pulling back many of students as well as schools from achieving excellence. It is thus time for every country to introduce a more equipped education sector in the future.

Heyyyy

What?

Do you know?

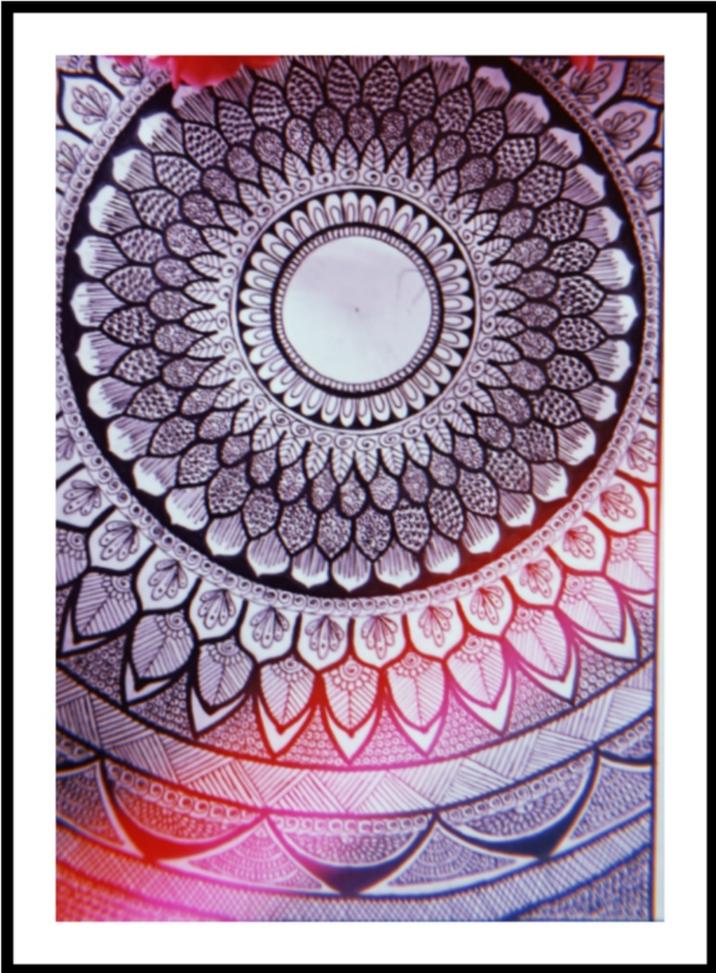
Do I know what?

Watching art pieces gives peace!!

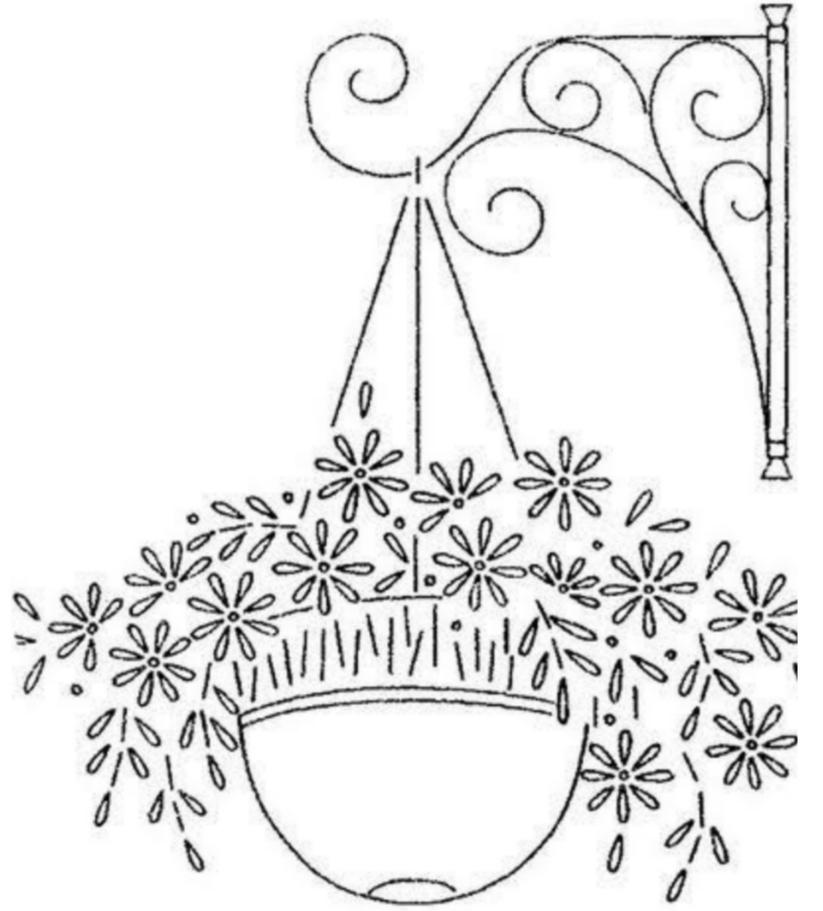
Ahan?? I haven't heard that ever before!

So, your gonna argue with me now Morty?

No, I mean, we can always try!



**BY:- Anushka Prajapati**  
**AIML**



**BY:- Ausaf Azam**  
**CSBS**

FOR BEGINNERS IN PROGRAMMING

## 6 BEST PROGRAMMING LANGUAGES THAT BEGINNERS SHOULD CONSIDER LEARNING IN 2021

It's almost the end of second semester and are you still wondering which programming language you should dive in more to focus and that will help you in achieving not only your career goals but also help you in learning something new and have a vast majority of support.

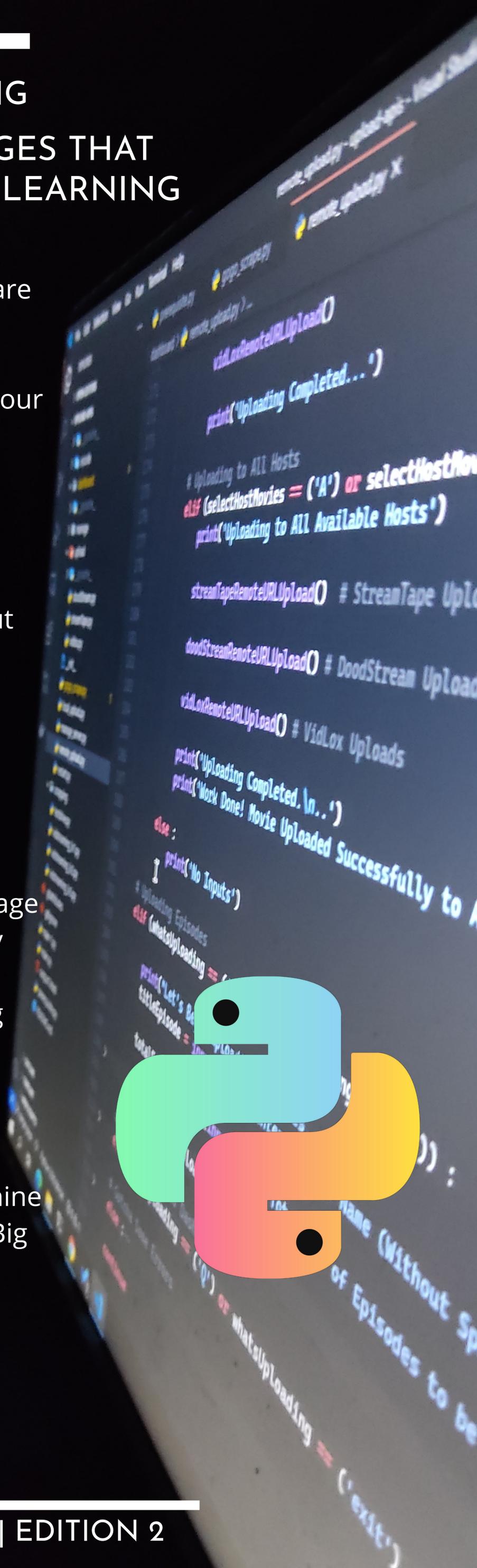
**// NOTE:** This list is based on the Stack overflow's Developer Survey 2020, so without wasting much of your time, let's have some quick bits.

# 1. Python

No doubt, Python is the most popular language now-a-days due to its easy and user-friendly environment compared to others. Python is used in every sector of Software Engineering including structured data and functional programming.

Due to a vast support and popular libraries, Python also offers a hand in field of AI, Machine Learning, Data Science, Web Development, Big Data and even Robotics.

Some Popular Python Libraries includes- Django, Flask, Tensorflow, Keras, and SciPy.



## 2. JavaScript



As stated in the Stack overflow's Developer Survey 2020, JavaScript is the second most popular programming language due to its use cases. Javascript is one of the core programming languages in the world of Internet along with HTML and CSS. It is one of the most user-friendly programming languages you'll find.

Mainly used in the web development, some of the popular frontend frameworks like React.JS & Next.JS and backend frameworks like NodeJS and ExpressJS are built over the JavaScript. Although, you'll need to learn some supportive programming languages to pursue career as a frontend developer for desktop or mobile app development.

## 3. Go/GoLang

Golang, commonly referred as 'Go' is a new system-level programming language released by Google. Go is mainly used by Google to improve their cloud infrastructure. It offers easy control, performance and scalability to the cloud platforms. It is widely used in the development of Mobile apps, Desktop Apps, and even Web Apps.



Google has also developed the Kubernetes over "Golang" too. So, if you're interested in pursuing career in the field of cloud infrastructure, Go is the programming language you should start learning.

## 4. Swift

Swift, the name that you might have not heard, is a programming language developed by Cupertino-Giant Apple for their devices. Swift is used for developing apps for your Apple devices, basically for anything that runs an Apple OS. If you want to develop apps for Apple Ecosystem and earn some hard cash, Swift should be your choice.

Swift is a beautiful and easy language to learn but you'll need to invest in the Apple Ecosystem

## 5. C++

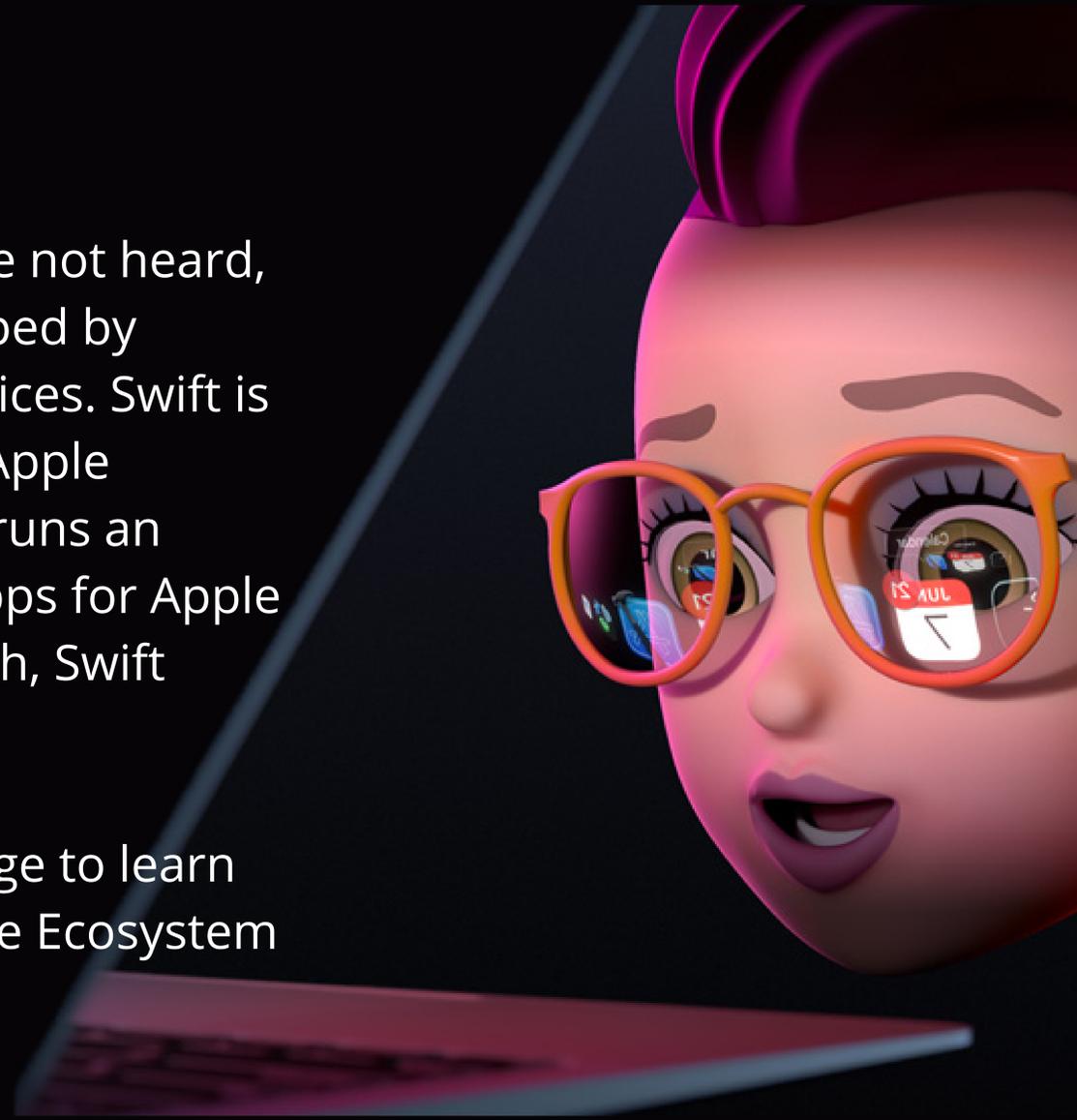
Last but not least, C++ is the most popular language used around the globe. It can be used to develop anything from an entire operating system to a simple game or a multi-level program. C++ supports several kinds of programming techniques like procedural, object-oriented, functional, and so on and that makes C++ the most powerful & flexible of all the programming languages mentioned in this article. Due to huge developer support and manifestations of libraries, if you want to become a fully-fledged developer in any field related to IT & Software Development, C++ should be your first choice.

### Where to Learn These Languages?

Now that you know about these languages, the next question that will definitely arise in your mind will be where to learn them? It's not difficult to answer. You can learn them from offline classes if you want a steady command or you can practice on your own using online resources like YouTube and other e-learning websites.

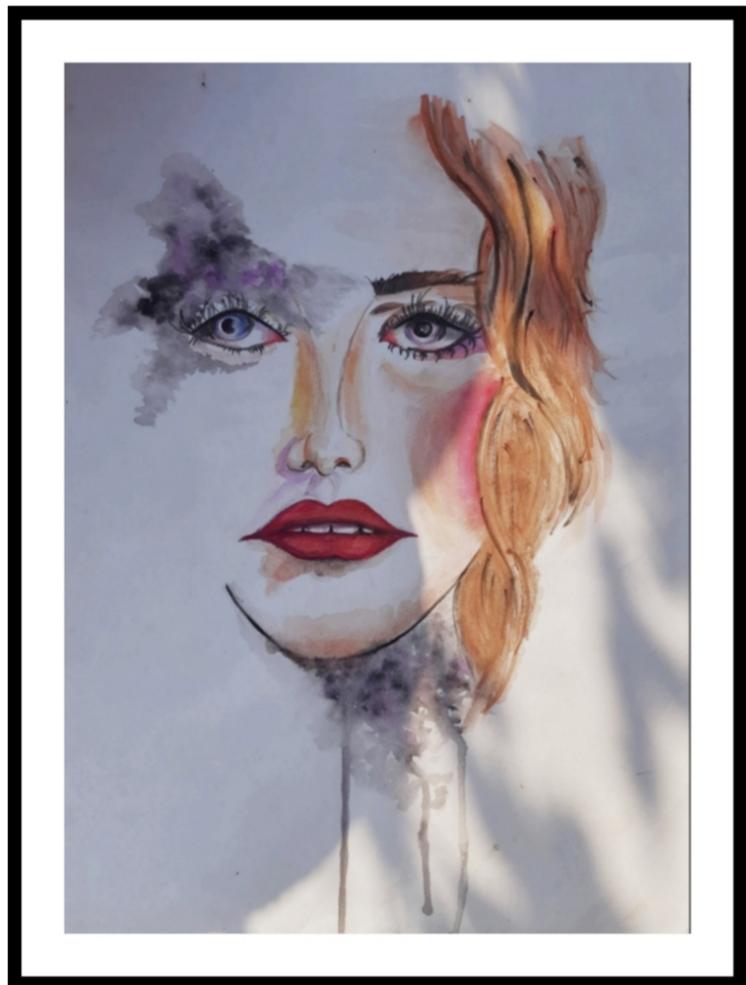
<https://bit.ly/aryncd1>

-by Aryan Chaurasia  
CSE(AIML)





**BY:- Nupur Namdev**  
**CSDS**



**BY:- Vidushi Upadhyay**  
**CSE**

# INNOVATION IN LIVING

## BIOMIMICRY - THE NEXT GENERATION OF ARCHITECTURE TECHNOLOGY.

BY- EHTESHAM AHMAD (CSE-AIML)

**Biomimicry** is a technological-oriented approach focused on putting nature's lessons into practice. According to Janine Benyus, biomimicry sees nature as: A model. It studies nature's models and imitates them or uses them as inspiration for designs or processes with the goal of solving human problems. In simple terms we can say that copying nature for improving our technology and sorting our issues by inspiring from nature.

### Real life projects

East Gate Centre, ZIMBABWE

The East gate Centre is a shopping centre and office block in central Harare, Zimbabwe, designed by Mick Pearce. Designed to be ventilated and cooled by entirely natural means, it was probably the first building in the world to use natural cooling to this level of sophistication. It opened in 1996 on Robert Mugabe Avenue and Second Street, and provides 5,600 m<sup>2</sup> of retail space, 26,000 m<sup>2</sup> of office space and parking for 450 cars.

Termites in Zimbabwe build gigantic mounds inside of which they farm a fungus that is their primary food source. The fungus must be kept at exactly 87 degrees F, while the temperatures outside range from 35 degrees F at night to 104 degrees F during the day. The termites achieve this remarkable feat by constantly opening and closing a series of heating and cooling vents throughout the mound over the course of the day. With a system of carefully adjusted convection currents, air is sucked in at the lower part of the mound, down into enclosures with muddy walls, and up through a channel to the peak of the termite mound. The industrious termites constantly dig new vents and plug up old ones in order to regulate the temperature.

The Eastgate Centre, largely made of concrete, has a ventilation system which operates in a similar way. Outside air that is drawn in is either warmed or cooled by the building mass depending on which is hotter, the building concrete or the air. It is then vented into the building's floors and offices before exiting via chimneys at the top. The complex also consists of two buildings side by side that are separated by an open space that is covered by glass and open to the local breezes.



Hey Rick!



What?



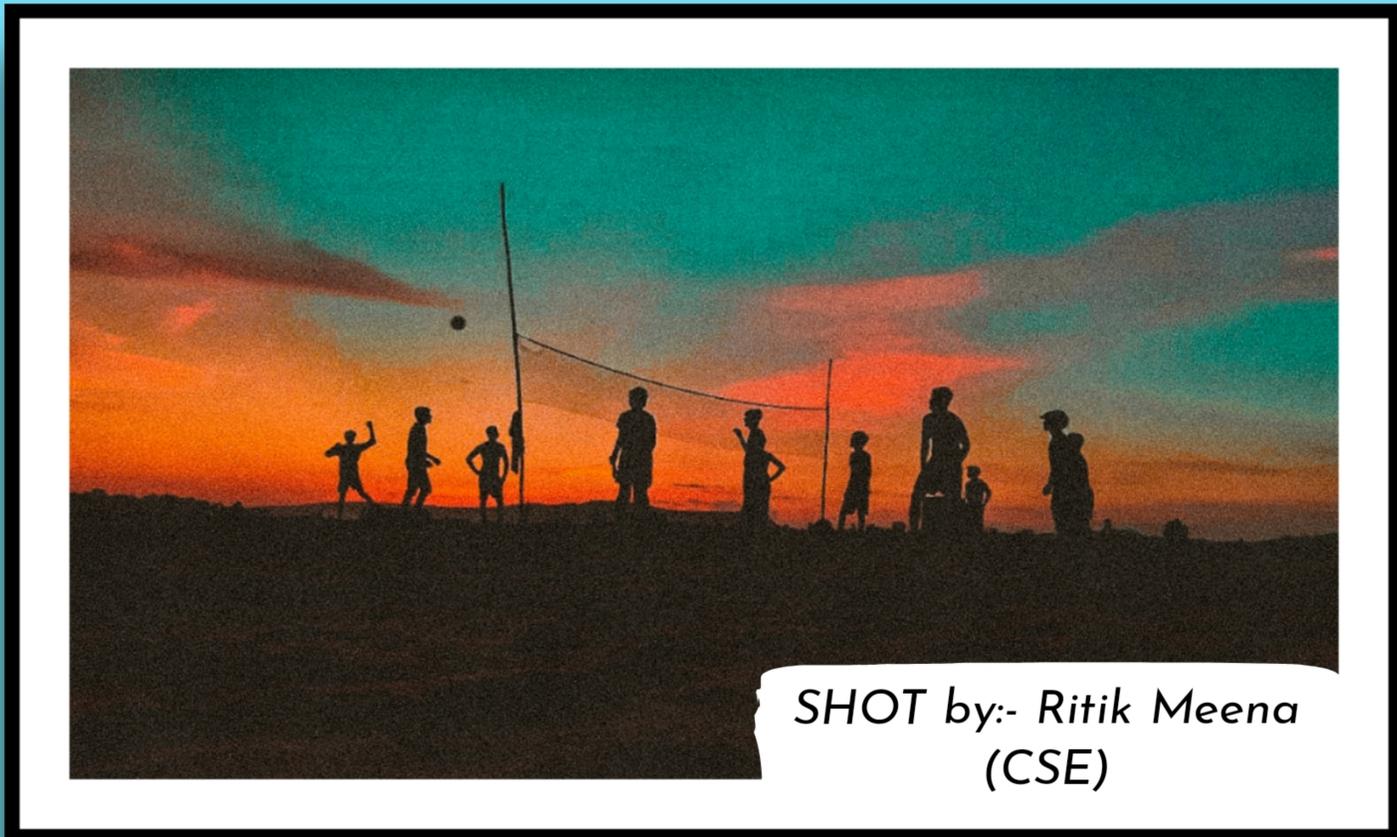
I'm bored!



So am I!



Hey let's see some photographs!



## Did You Know??

**The first Beach Volleyball medals were awarded in 1996 in Atlanta.**



## Did You Know??

**The largest rideable bicycle has a wheel diameter of 3.3 m (10 ft 9.92 in)**

**SHOT BY:- SANU SIMON  
(MECHANICAL)**



**Did you know??**

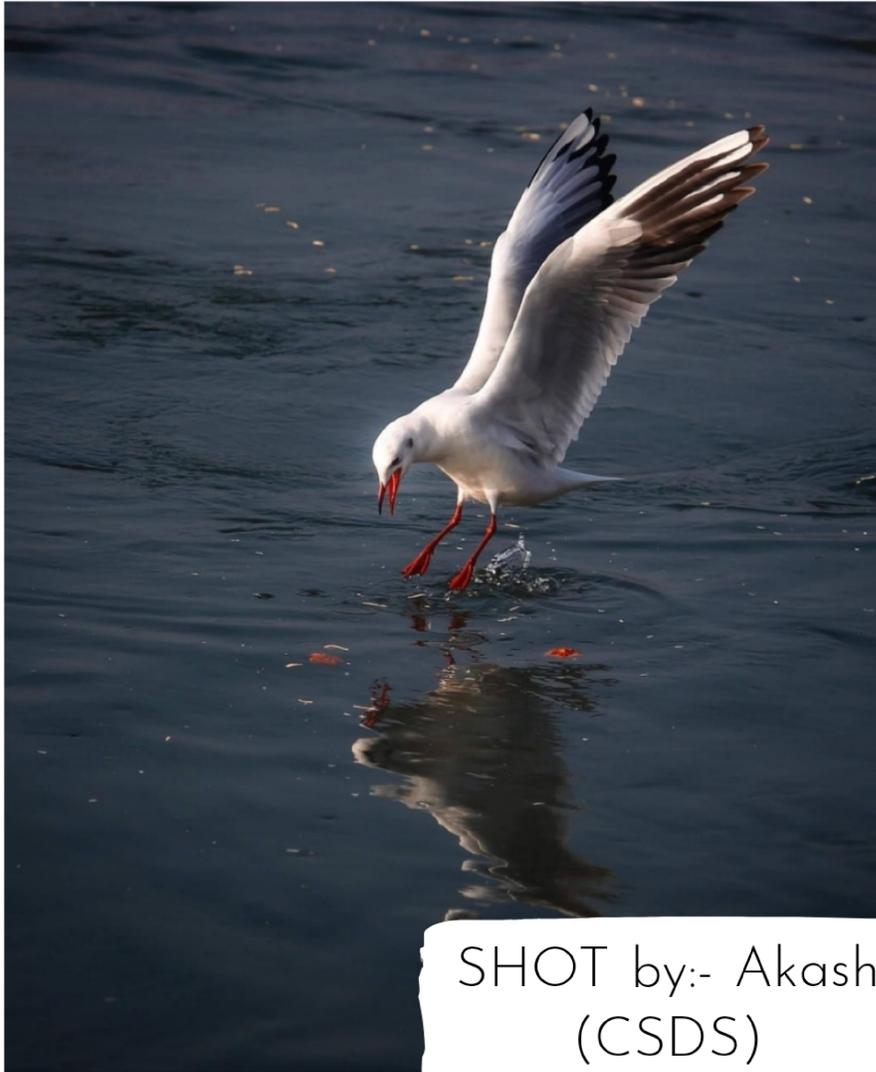
Squirrels may pretend to bury a nut to throw off potential thieves. Smart huh?

**Did you know??**

Until Today,  
nobody has seen  
a hornbill drink!



**SHOT BY:- SATYAM SAMEER  
(EC-B)**



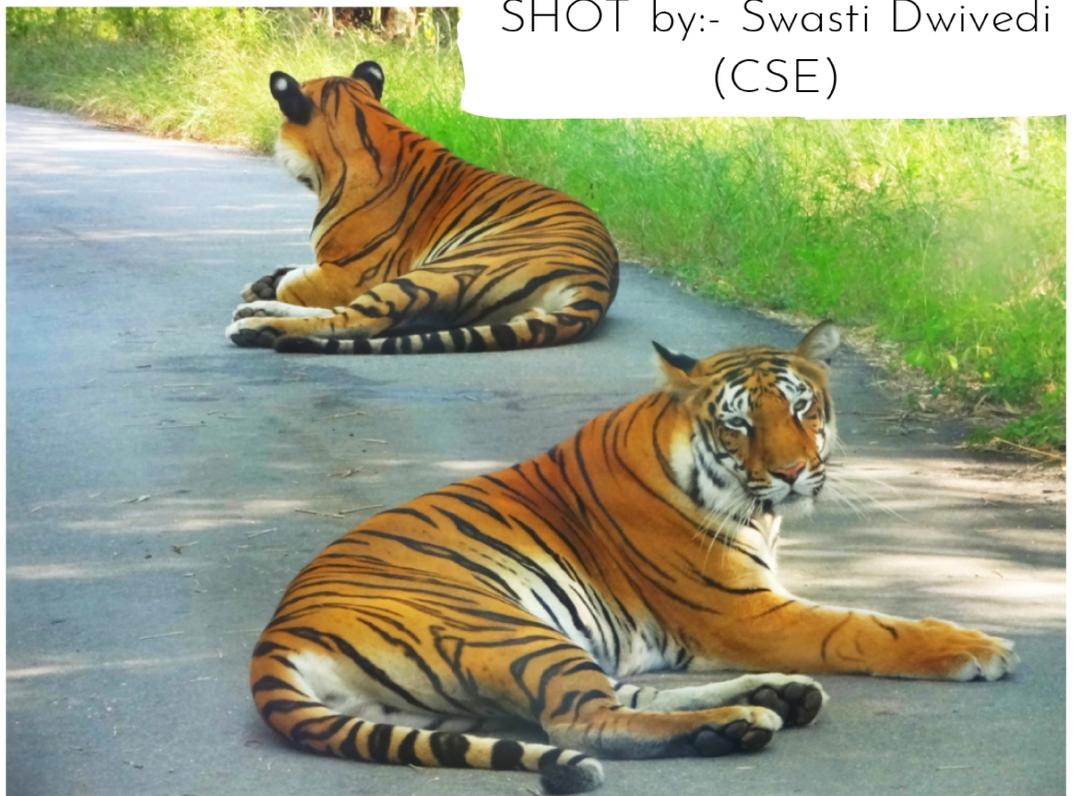
SHOT by:- Akash  
(CSDS)

## Did You Know??

Seagulls stamp their feet in a group to imitate rainfall and trick earthworms to come to the surface. Cleaver!!

## Did You Know??

A punch from a Tiger may kill you I wouldn't want one!



SHOT by:- Swasti Dwivedi  
(CSE)

LOOKING FOR A NEW WAY AHEAD

# THE SELF-RELIANT INDIA

- by Anushka Prajapati  
(CSE-AIML)



Atmanirbhar Bharat, which translates to 'self-reliant India', is a Hindi phrase popularized by our Prime Minister Shri Narendra Modi and the Government of India in relation to economic development in the country during and after the COVID-19 pandemic. In this context, the term is used as an umbrella concept in relation to making India "a bigger and more important part of the global economy", pursuing policies that are efficient, competitive and resilient, and being self-sustaining and self-generating. It does not mean "self-containment", "isolating away from the world" or being "protectionist".

The phrase has been used by the former Planning Commission in India's Five-Year Plans. Commentators have noted that India has been enacting policies and building institutions that promote self-reliance since the day it was created.



Private companies and their products have also been considered as fine examples of self-reliance in India such as— the Amul, HDFC, the leading IT companies of India, and Bharat Biotech and Serum Institute of India. Bharat Biotech developed India's first indigenous COVID-19 vaccine in a bench-to-beside journey that took eight months. India has demonstrated that it can cope up with any problematic situation and uncovers opportunities.

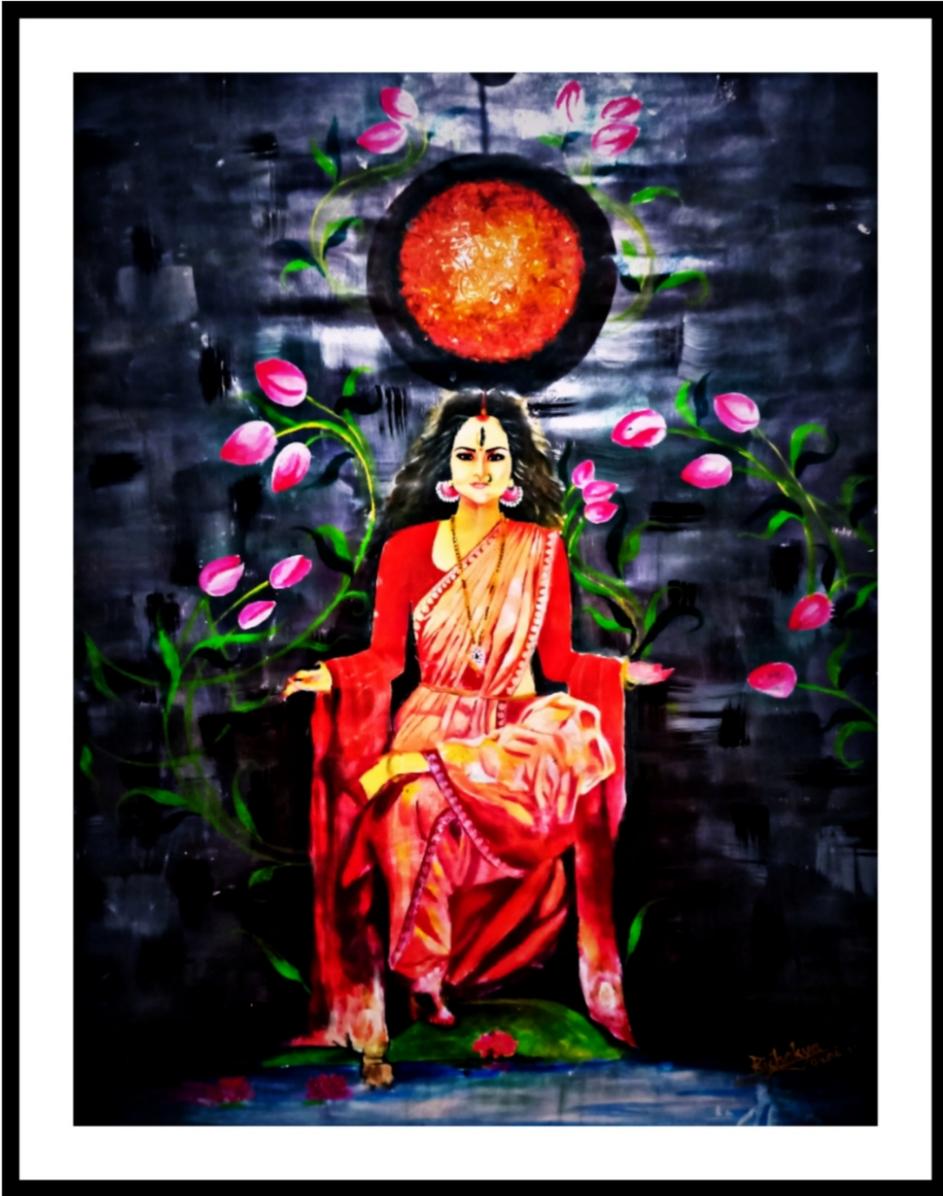
The focal point of the Abhiyan is to make the country self-reliant. Let's understand its highlights:

- Rise in borrowing limits: With the relief package, state governments now have a rise in their borrowing limits.
- One Nation One Ration card: This universalization of ration card will enable migrant workers and their families to access public distribution benefits from any Fair Price Shop in the country.
- Privatization of Public Sector Enterprise (PSEs).
- Collateral Free Business loan: All businesses such as MSMEs, agriculture, and allied sectors can get collateral-free automatic loans.

In order to regain the strength of the economy in the global market with self-reliance, the Indian government launched the Atmanirbhar Bharat Abhiyaan. Below are its benefits:

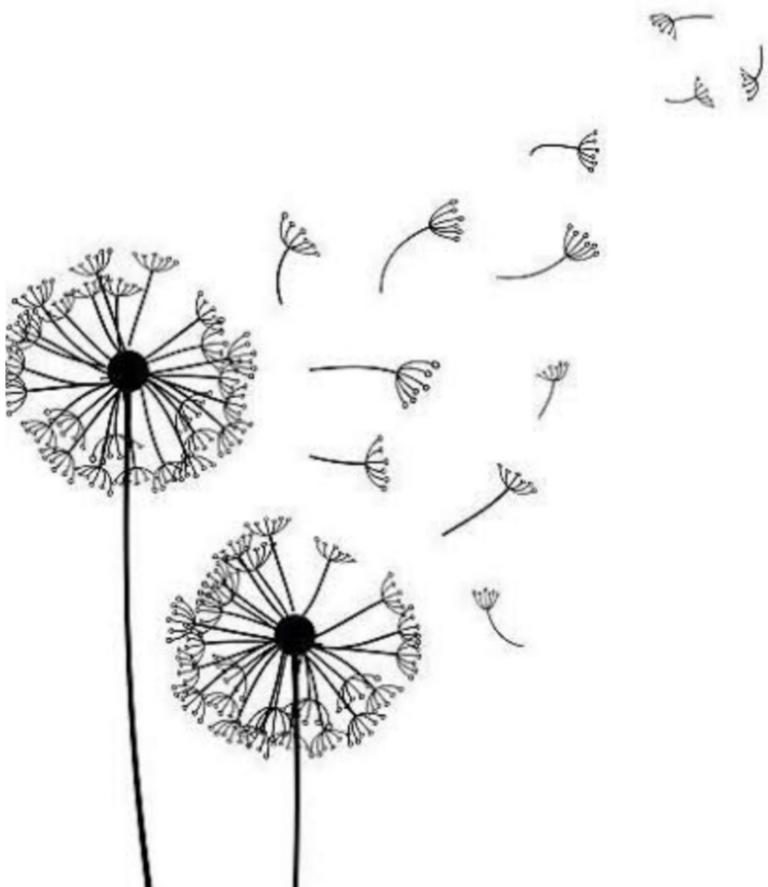
- Liquidity infusion and direct cash transfers into the accounts of laborers and daily-wage earners are helpful for their survival during the lockdown.
- Long-term modifications in critical sectors keep them globally competitive and attractive.
- Substantial growth in the e-Commerce industry.
- Lots of employment opportunities soon in the country.

The COVID-triggered economic crisis should lead us to create a development model that leads to opportunities for the people at the bottom of the pyramid. A competitive and open economy can ensure Atmanirbhar Bharat.



**BY:- Richa Shakya**

**EC B**



**BY:- Akshita Dubey**

**CSDS**

# FINALLY! A HOPE TO REDUCE PLASTIC WASTE ON PLANET EARTH

BY- EHTESHAM AHMAD (CSE-AIML) &  
ISHAN CHOUBEY (EC)

FEATURED IMAGE: GREAT PACIFIC GARBAGE DUMP

As we know how much we are addicted to using plastic in our daily life. That is why plastic waste is increasing and we all know how selfish we are. We dump all these plastic waste directly into the ocean and water bodies without thinking about the lives of aquatic animals. That is why, large number of aquatic animals are on the verge of extinction.

Because scientists in many countries are in the race to develop plastic eating bacteria. In March 2016, scientists in Japan published an extraordinary finding. After finding up

some sludge from outside a bottle recycling facility in Osaka, they discovered bacteria which had developed the ability to decompose, or “eat,” plastic.

The name of the mysterious bacteria is ***Ideonella Sakaiensis***. It is only able to eat a particular kind of plastic called PET (Polyethylene terephthalate). And now scientists are trying it on a large scale to reduce plastic waste. Still, this and a series of other breakthroughs in recent years mean it could one day be possible to build industrial-scale facilities where enzymes chomp on piles of landfill-

bound plastic, or even to spray them on the mountains of plastic that accumulate in the ocean or in rivers.

In the current scenario, by vastly increasing our use of single-use plastics such as masks and takeaway boxes, the Covid-19 pandemic has focused attention on the world's plastic waste crisis. Earth is on track to have as much plastic in the ocean as fish by weight by 2050, according to one estimate.

## REAL LIFE INCIDENTS

Recent discoveries of plastic-eating microorganisms show that evolution is already getting to work.

- A year after the 2016 discovery of *Ideonella sakaiensis* in Osaka, scientists reported a fungus able to degrade plastic at a waste disposal site in Islamabad, Pakistan.
- In 2017 a biology student at Reed College in Oregon analysed samples from an oil site near her home in Houston, Texas, and found they contained plastic-eating bacteria.
- In March 2020, German scientists discovered strains of bacteria capable of degrading polyurethane plastic after collecting soil from a brittle plastic waste site in Leipzig.
- In 2018 scientists in the UK and US modified bacteria so that they could begin breaking down plastic in a matter of days.
- In October 2020 the process was improved further by combining the two different plastic-eating enzymes that the bacteria produced into one "super enzyme."

## INNOVATIONS FOR BETTER LIVING



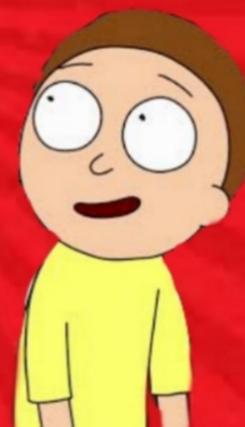


Morty, covid  
has caused a  
lot of deaths

Yeah and it's  
spoiling our year  
too



Let's go check what  
our mates did in  
lockdown!



# EXPERIENCES FROM THE PANDEMIC

## EFFECTS OF THE COVID-19

BY- ANMOL BICHPURIA (CSBS)

We all have a dream before we enter college, some expectations as to what we are gonna do when we get in. Especially after the type of college life we come across in movies.

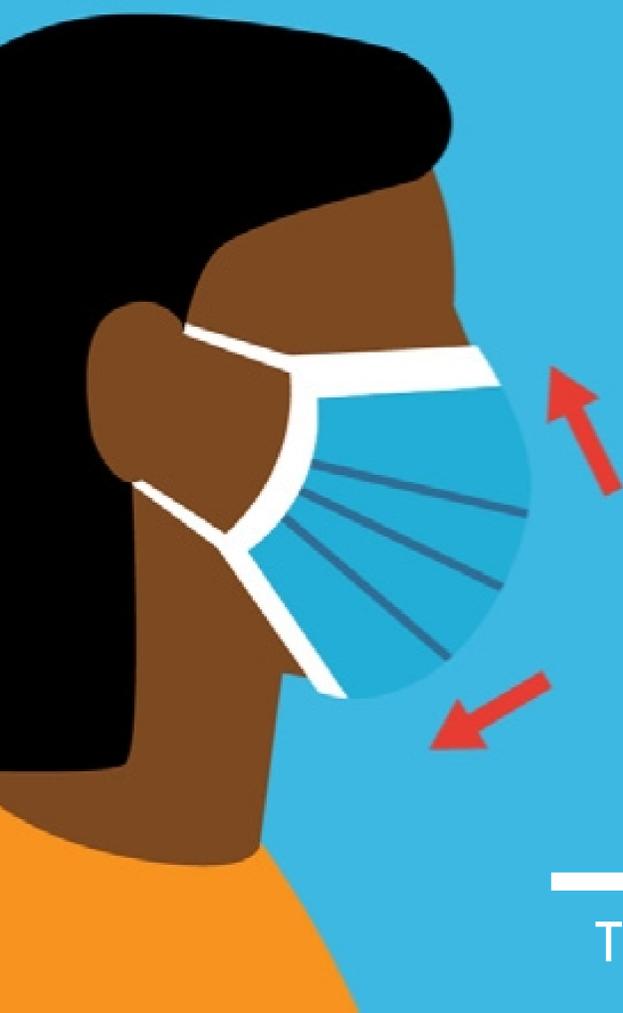
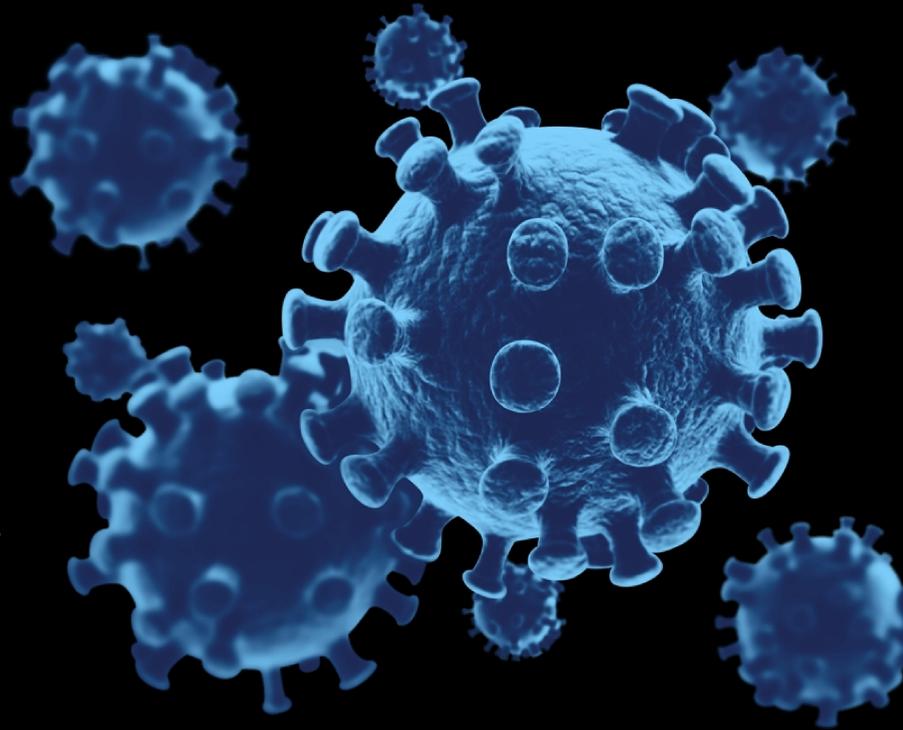
Some dreams come true, some don't. As we all know, college is the last opportunity for you to have the maximum fun you can have in your life without any worries.

So what are the most common "achievements" people may wanna achieve in these 4 special years?

For starters, the most common thing we hear are dreams about placements. Highest placements to be specific. Most of us plan our lives like.. "we'll enter College. Have fun, get a high placement, get into big MNCs like google, microsoft... and enjoy the rest of your life".

But honestly, we all know life ain't that simple.

Well... That's not how that works and we all realize it now.



The next thing is relationships. After completing our school life, we all enter a total new atmosphere where we are expected to start from the bottom. We make new friends, sometimes even enemies and meet some people we share an unsaid bond with. College is the time that gives us a chance to build the best and most delicate relations. Relations that may continue to help us in our future, no matter if it's friendship, companionship or something else.

## EXPERIENCES FROM THE PANDEMIC

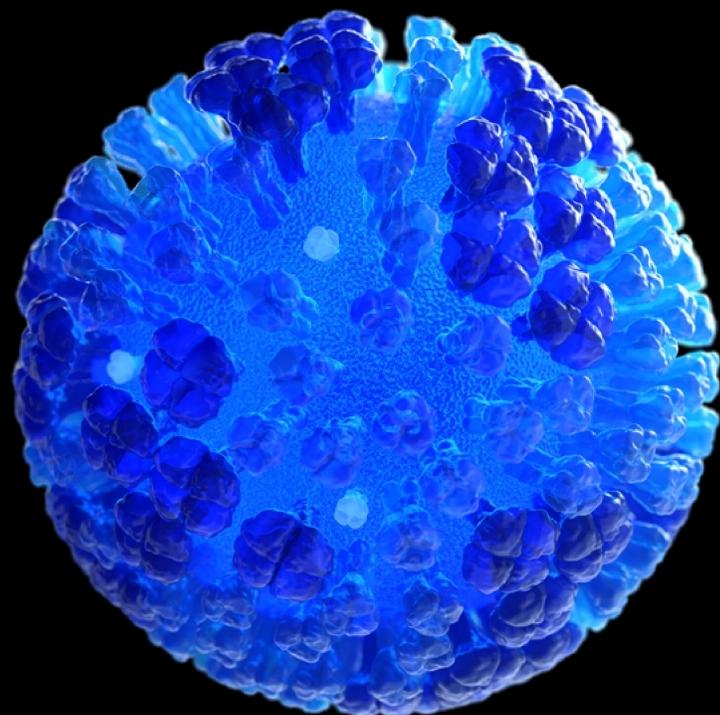
Another important thing is to learn as many side skills as possible. They go a long way side by side with the things that we learn from college. Believe me it's as important as water of crystallization in plaster of paris. Without it life is "hard".

We dreamt a great first year, we all did. Sadly it didn't go as we wanted it to. We missed a great time because of this pandemic.

First step into the college as freshers, choosing friends at the first sight, first offline impressions and many more fun things that we may never experience because of the online stuff.

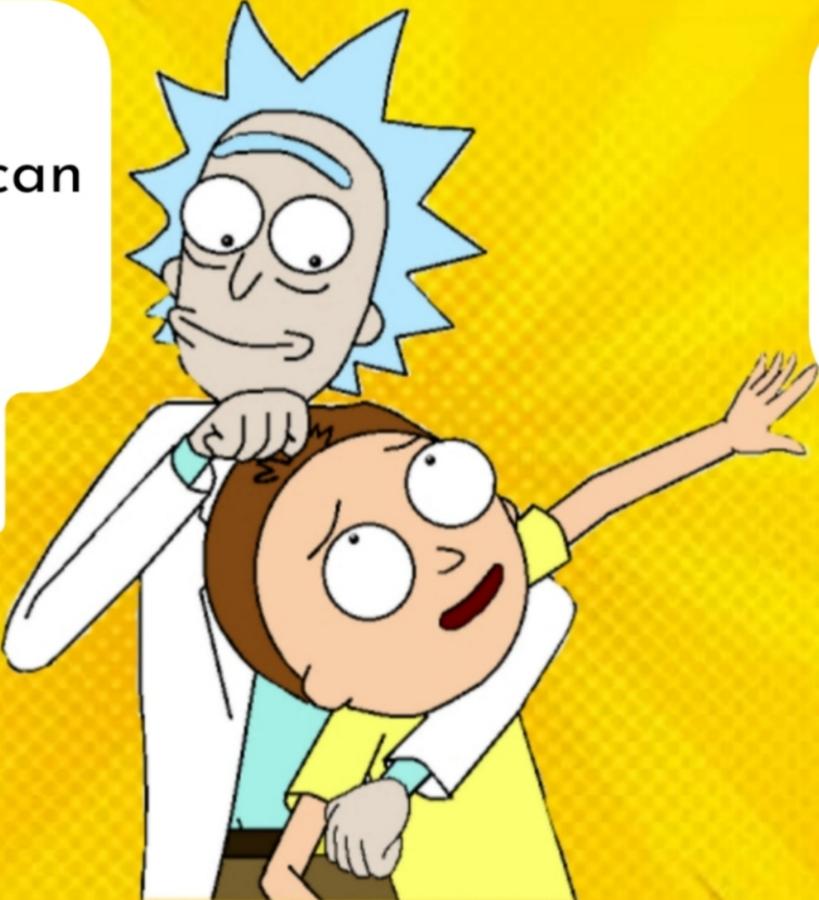
We all expect great things before college. But it's a fact that not all expectations come true. But those that do, brings great joy.

We still have many expectations and dreams just waiting to be fulfilled and they will soon. These four years are going to be the best years of all our lives. Even if most of us did not meet but we can feel a sense of belonging. That we belong in this college, in this batch and between a group of friends. So, don't lose hope because once we overcome this pandemic situation, there will be enough chances for you to make your dreams come true, dreams that you had for your college life, dreams that in one way or another connect everyone of our lives...





Rickk, enough exploring  
for today I guess.  
Can't we go for some  
entertainment?



Ofcourse we can  
kiddo!

But what are  
we gonna do?

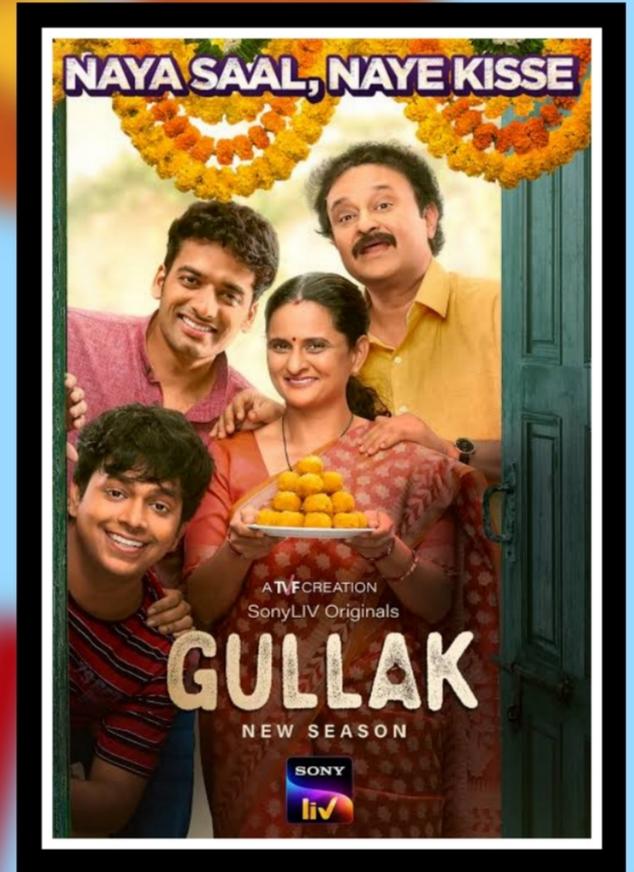
Let's see, we can go  
watch movies, read  
books, watch a good  
web series, or check out  
the magazine's art  
gallery!



# BINGE WATCH



**DEATH NOTE**  
**THRILLER ANIME**  
IMDb:- 9/10



**GULLAK**  
**FAMILY DRAMA**  
IMDb:- 9.1/10



**MONEY HEIST**  
**THRILLER**  
IMDb:- 8.3/10

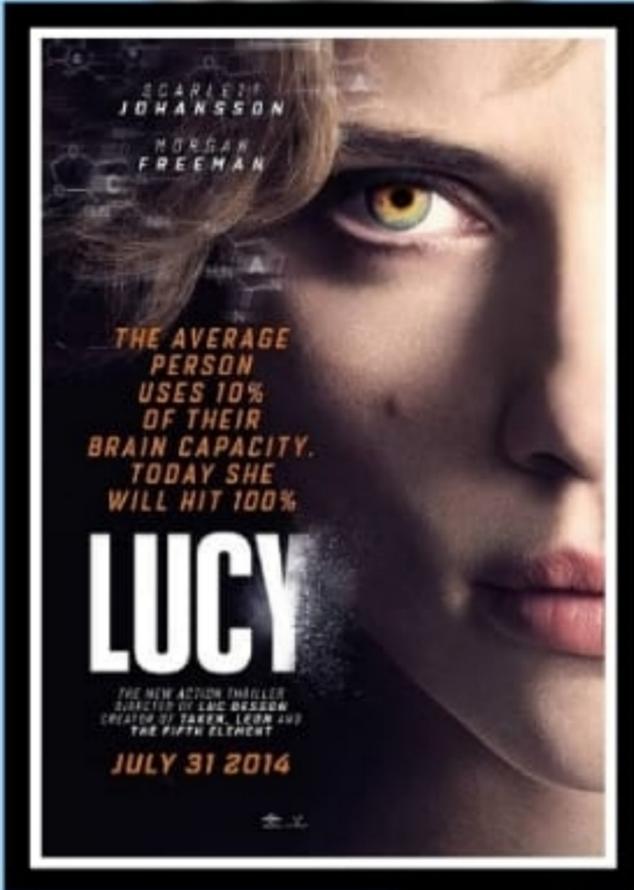


**DARK**  
**MYSTERY**  
IMDb:- 8.8/10



**LITTLE THINGS**  
**COMEDY**  
IMDb:- 8.3/10

# MOVIES



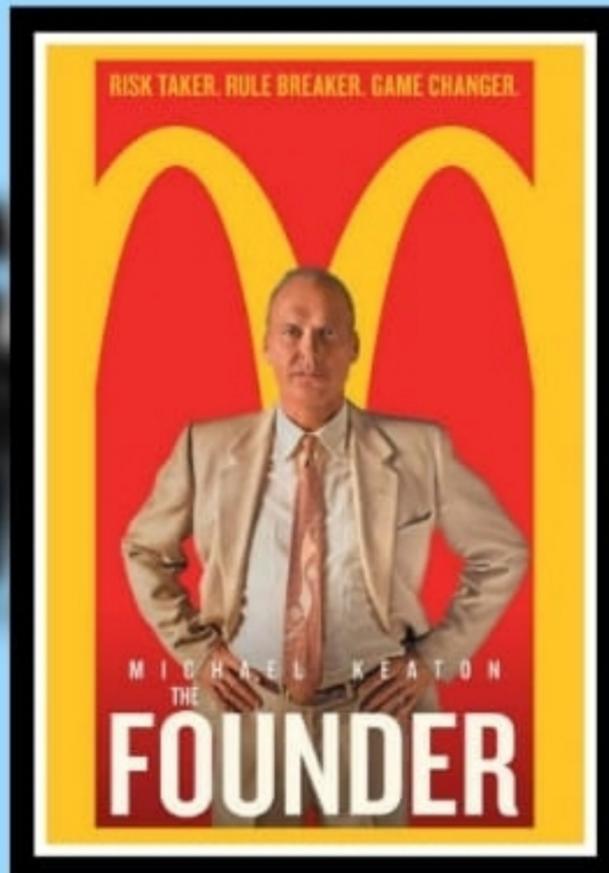
**LUCY**  
**SCI-FI**

**IMDb:- 6.4/10**



**THE REVENANT**  
**ADVENTURE**

**IMDb:- 8/10**



**THE FOUNDER**  
**HISTORY**

**IMDb:- 7.2/10**



**LA LA LAND**  
**ROMANCE**

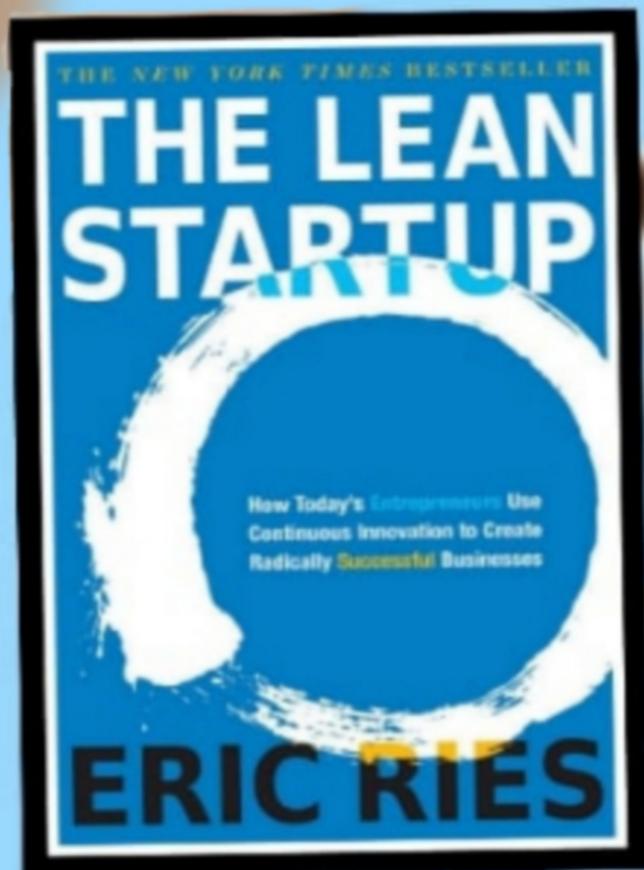
**IMDb:- 8/10**



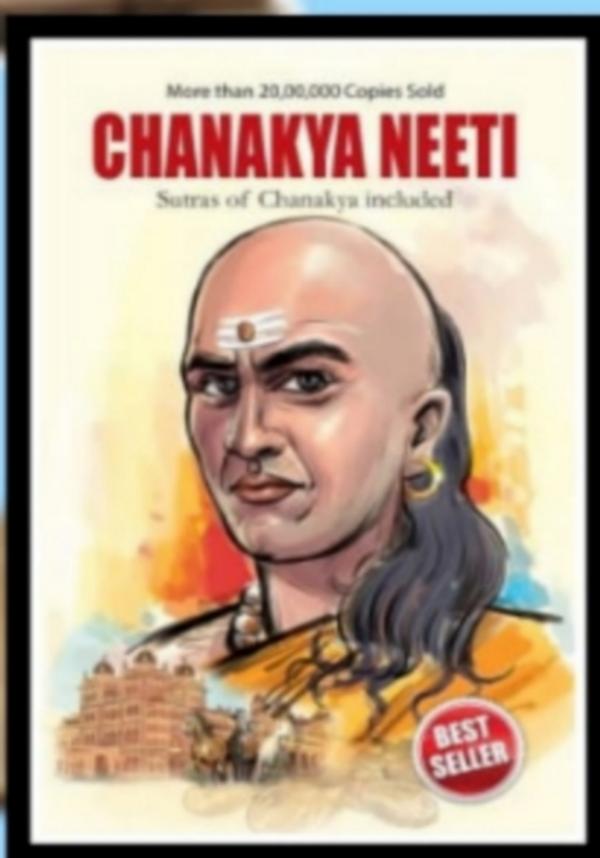
**WEATHERING**  
**WITH YOU**  
**ANIME/ FANTASY**

**IMDb:- 7.5/10**

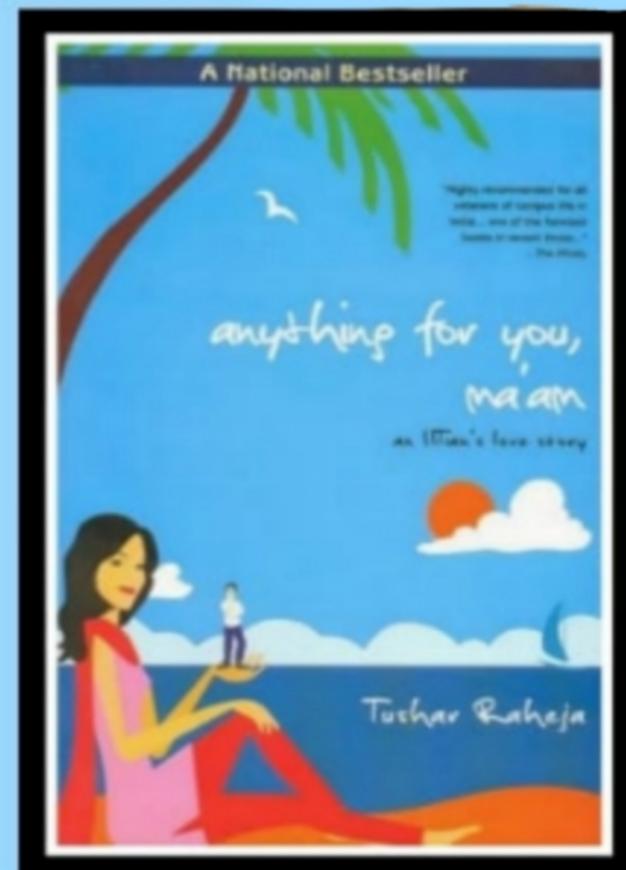
# BOOKS



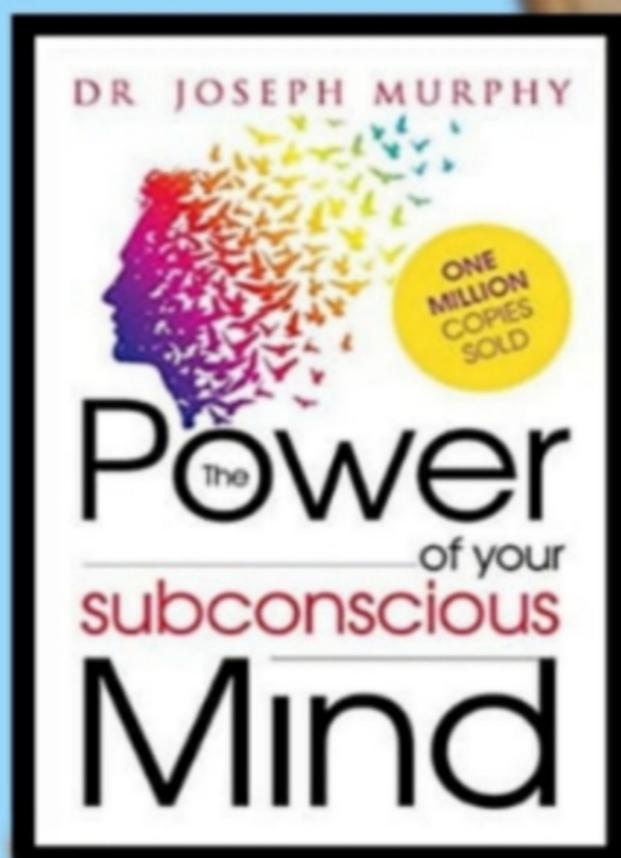
**THE LEAN STARTUP  
ENTREPRENEUR**  
Good Read:- 4.1/5



**CHANAKYA NEETI  
TREATISE**  
Good Read:- 3.9/5



**ANYTHING FOR  
YOU MA'AM  
ROMANCE**  
Good Reads:- 3/5



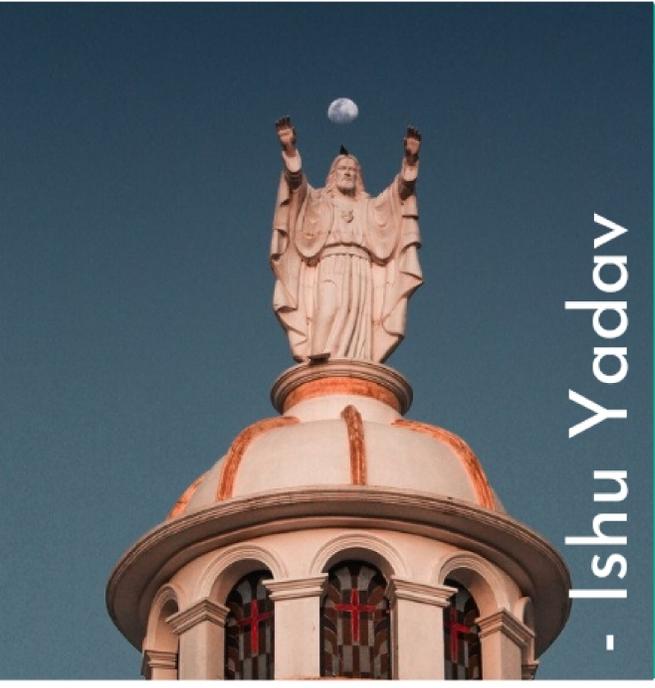
**THE POWER OF YOUR  
SUBCONSCIOUS MIND**  
SELF-HELP  
Good Read:- 4.1/5



**THE IMMORTALS OF  
MELUHA**  
FANTASY FICTION  
Good Read:- 4.1/5

**ART**

**GALLERY**



- Ishu Yadav



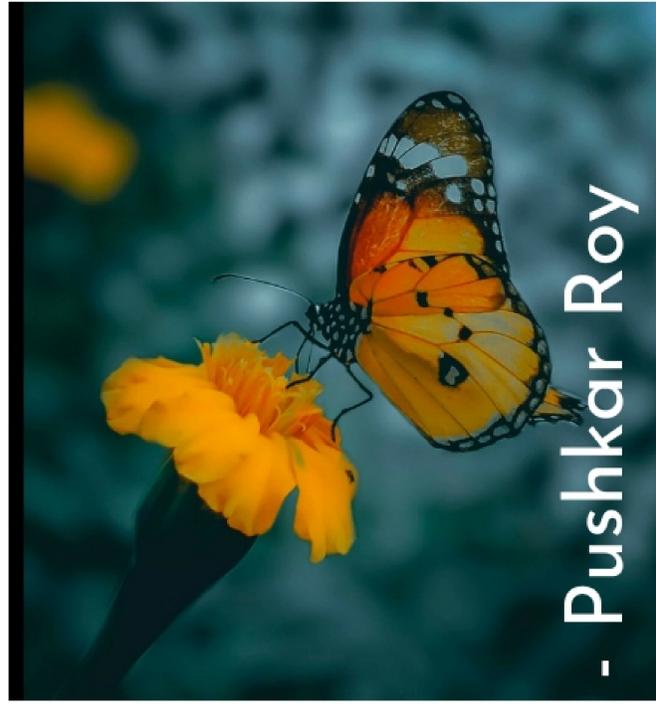
- Shrishti Singh



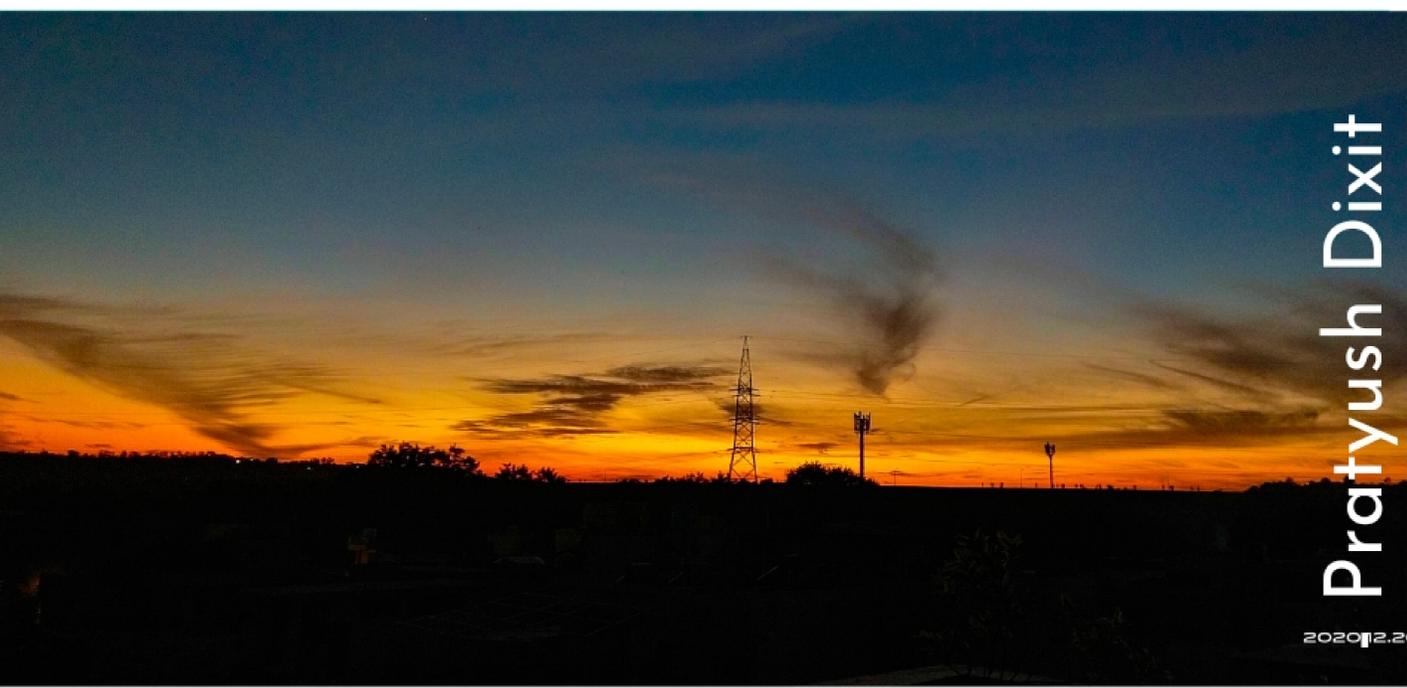
- Sanu Simon



- Nishi Soni



- Pushkar Roy



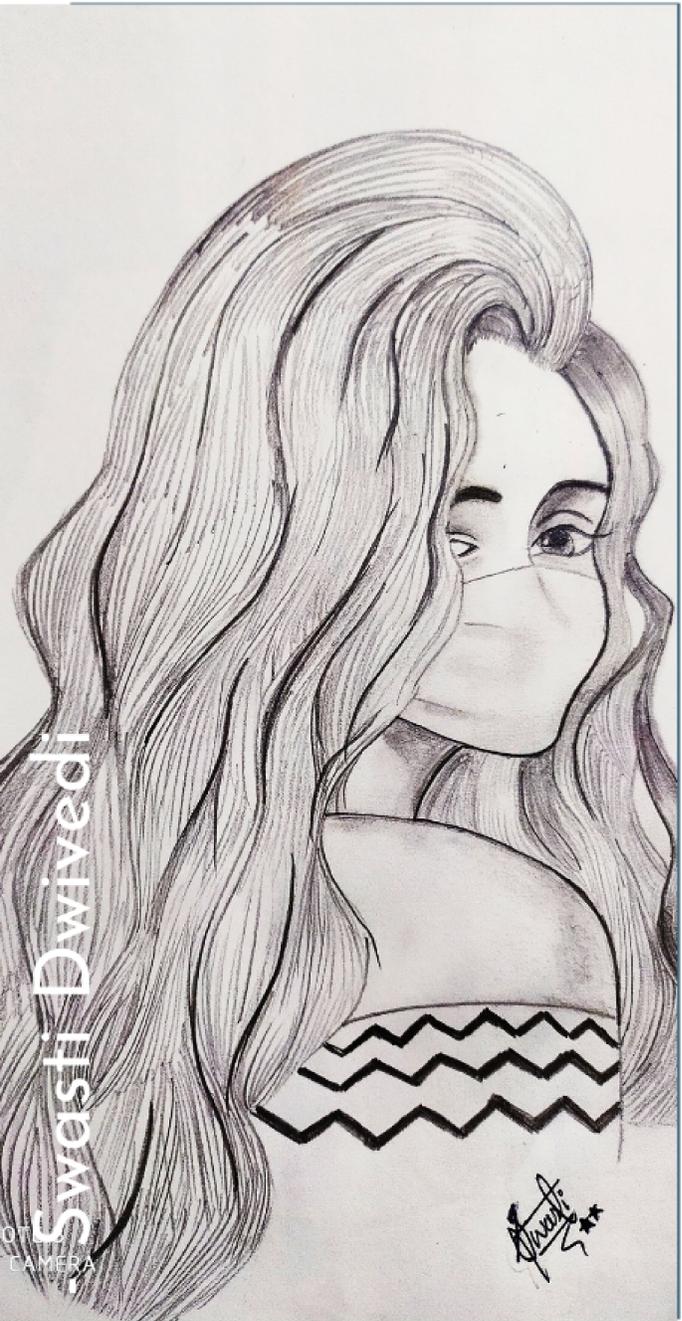
Pratyush Dixit



- Tanya Chaurasia



- Ritik Meena



- Swasti Dwivedi



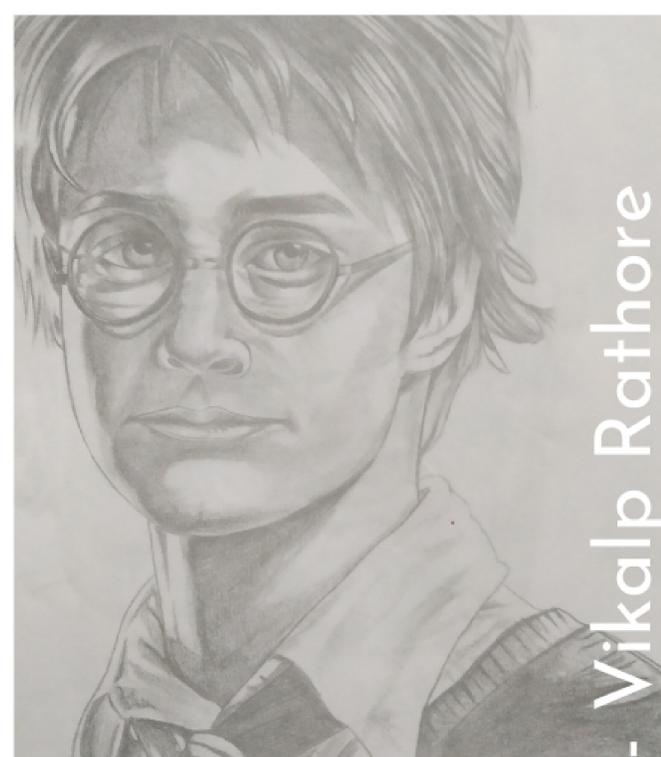
- Vaishnavi Gupta



- Shishupal Singh



- Nikita Chidar



- Vikalp Rathore



# *PHOTOGRAPHY CONTEST*

F  
A  
C  
E  
  
O  
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H  
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I

WINNER'S...

# WINNER'S



**Aryan Chaurasia**



**Nikita Shrivastava**



**Shivam Pandey**



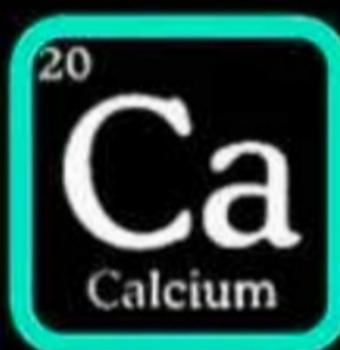
**Bitu Kumar**



Nonmetals



Noble gases



Alkaline earth metals



Lanthanoids

# PRIMARY ELEMENTS OF HUMOR





WHY CAN YOU NEVER TRUST ATOMS ?

A: THEY MAKE UP EVERYTHING!

Which doctor is the worst seen by his patients?

A: The ophthalmologist.

Two chemists walk into a bar.

The first one says- "I'll have H<sub>2</sub>O".

The second one says- "I'll have H<sub>2</sub>O too".

The second one dies.

A CHEMIST WALKS INTO A PHARMACY AND ASKS THE PHARMACIST. "DO YOU HAVE ANY ACETYLSALICYLIC ACID?"

"YOU MEAN ASPIRIN?" ASKED THE PHARMACIST...

Biology teacher in class: What is Aloe Vera?

Santa: It is a Punjabi offering a peg to his elder brother!!

Atom 1: I just lost an electron.

Atom 2: how u feel?

Atom 1: positive

---

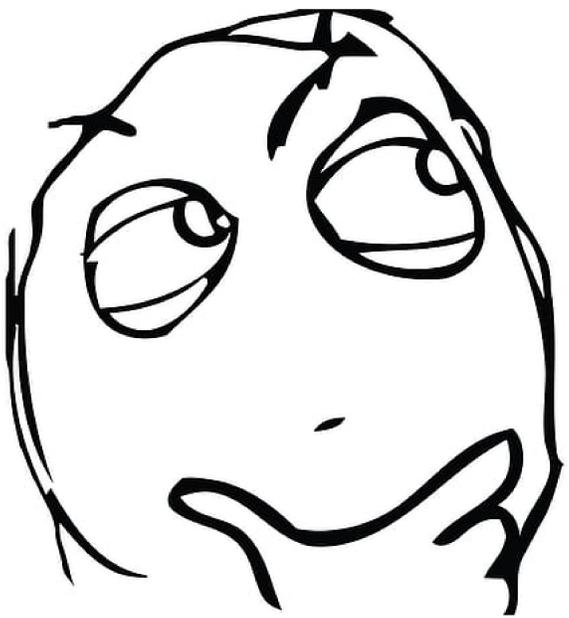
# HOW MEME SHAPES OUR CULTURE?

BY- RIYA SINGH (CSDS)

Meme a word which is nowadays ruling our social media. The meme was a way that something in pop culture was perceived, passed on, and reacted on.

Now this idea of a “meme” has also changed with the rise of technology in the late 20th and early 21st centuries to what is known today as an “Internet meme.”

## THE RELATIONSHIP BETWEEN MEMES AND SOCIAL CHANGE



Meme help us connect and can serve as conversation starters and can even help you smooth over a conflict or make a point. They are a free form of entertainment, always an option even when you don't have the time for more time consuming hobbies.

Memes can also influence the way we interact with others. Some parts of meme culture have led to ripples in our social fields beyond the web. Every meme after all, has a creator behind it with an intention for posting a viral message, whether for entertainment or convincing.

## MEMES ARE EASY TO GET INTO

Every meme mirrors a particular cultural context and is generally based on some knowledge or opinion about the world. Some memes develop as a response to books, music albums, or cultural events such as the Oscars. Existing memes can also be a solid basis for making new memes.

You also don't need any specialized technical knowledge to participate in meme culture. A simple image editor or video app is all you need to make a meme. Unlike many other creative fields, meme creation generally has no expenses.

## DARK HUMOR HELPS WITH PROCESSING STRESSFUL SITUATIONS

There are also memes that describe the stress of high school and academia, as well as memes about workplace exhaustion. Meme culture also takes on anxieties about the state of the world. They give people an easy way to talk about shocking events.

Memes can be an effective coping tool. They give us a way to express difficult thoughts. There is a community element as well. Sharing memes can give people the sense that they're not alone in their struggles.





**// AS WE ALL KNOW THERE IS BOTH GOOD AND BAD ASPECTS OF A CERTAIN THING**

## **MEMES CAN BE DAMAGING TOO**

At the same time, it's important to consider that memes can be used for harassment as well as for furthering hate speech and disinformation about various social groups.

Some memes are used to create a hostile environment. For instance, they can have a negative impact on campus culture. In instances like this, memes spark discussions about appropriate student conduct outside of the classroom.

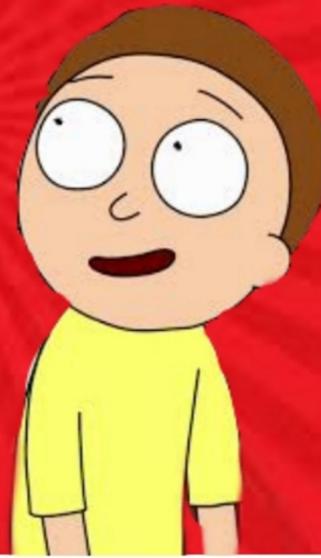
## **WE WILL START THINKING ABOUT MEMES IN DIFFERENT WAYS**

Mememes are becoming more politicized and they're also getting widely used by corporations. So the meme culture has seen huge changes.

At the same time, people are becoming more aware of the ways that memes can get misused. We no longer consider memes to be harmless fun. For better or for worse, we're becoming aware of their social and political influence.

Finally we can say that memes are a communication tool and they can be used for many different purposes. They can aid positive social changes, but they can also be used to harm others. It's important to develop a realistic idea of the power of memes as a medium of communication now and in the future.

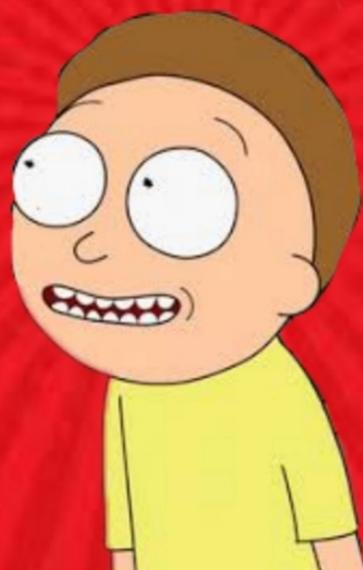
Heyy, it's amazing how they beautifully put those sentences in a rhyming order and make up such beautiful poems!



Yeah, I love it too. They describe hard to explain things in such a beautiful way!!



Yeah!!  
Hey, why don't we go read them??



# "Promise yourself not to cry"

*It happens*

*Life will put you down*

*Your dreams would have wound*

*Roaming around seashore you would have a round*

*On all those events that made you bound*

*But promise yourself not to cry*

*That traction full night in the faint light*

*Brings the needless thoughts that takes many bite*

*Feeling of being in cage cuts your flight*

*But promise yourself not to cry*

*Closing your aim in a jar is not a solution far*

*Problems don't last forever they do clear*

*Believe in destiny just don't have a fear*

*But promise yourself not to cry*

*Dark clouds will hover ,future would bring shower*

*You would touch the sky and be a life lover*

*Beautiful face would ablaze with a new cover*

*But promise yourself not to cry*

*THIS TIME THE TEARS OF HAPPINESS*

- Nikita Deshmukh

# सब्र की हद

नादान थी जो गिड़ गिड़ाती रही,  
तेरे कदमों तले खुद को दबाती रही,  
इस बार कर ले तू लाख हठ,  
कहता है गुरूर मेरा पीछे मत हट ,  
तू गिराना मुझे, बिन तेरे सहारे उठूंगी |  
तेरे रोके ना रुकगीं ||

माना, मैं कमजोर थी अपने मन से,  
निकाली भड़ास तूने मेरे तन पे,  
अब हूं अटल मैं मन से |  
और प्रबल इस तन से ||

मेरी चीख सुनी है तूने ,  
इस बार दहाड़ के दिखाऊंगी ,  
तू देख आंख उठाके,  
तेरी बोटियां खींच लाऊंगी,  
इस बार न गिड़ गिड़ाउगीं |.....2



सोचा कैसे तुझपे भरोसा कर,  
तेरे आसरे हो जाऊंगी,  
खुद से बनी हूं मैं,  
तेरे लिए ना खुद को मिटाऊंगी।



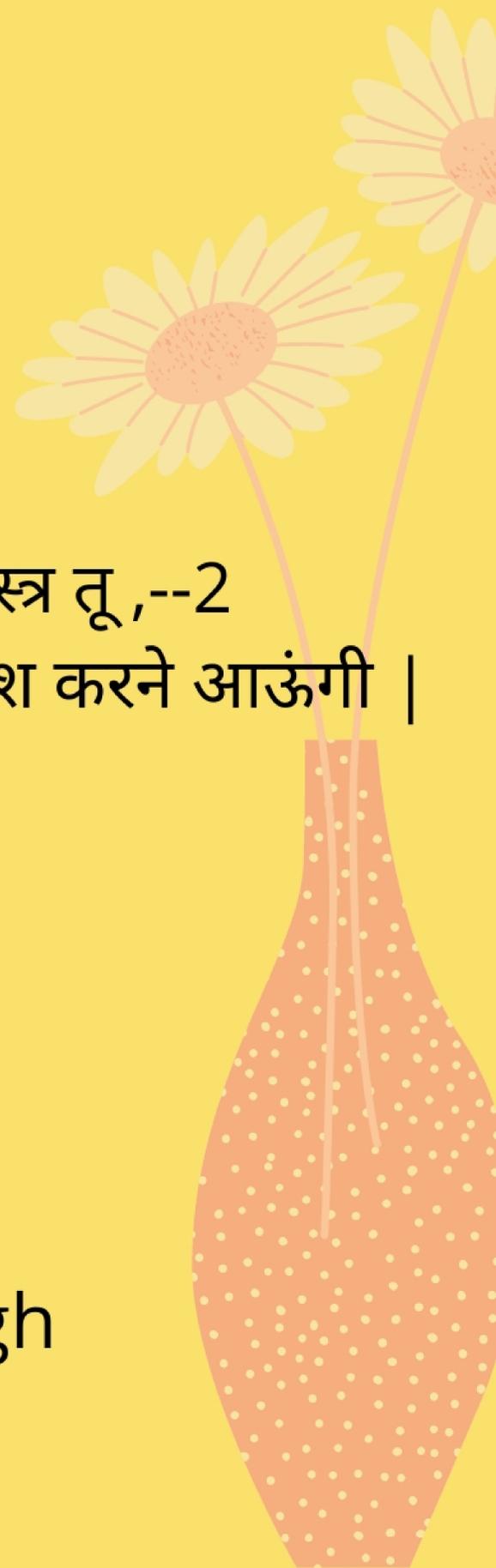
प्यार था सो प्यार दिखाऊंगी,  
भगवान नहीं है तू मेरा,  
जो तेरी तस्वीर सजाऊंगी ,  
कर भले तू हद पार .....  
इस बार न गिड़ गिडाउगीं आऊंगी।।



उतार देना बेशक, किसी कमजोर के वस्त्र तू, --2  
दुर्गा का रूप हूं अगले जन्म तेरा विध्वंश करने आऊंगी।  
घुट घुट मरेगा इतना नीचे गिराऊंगी,  
इस बार न गिड़ गिडाउगीं.....।  
सम्मान मैं ही पाऊंगी .....।  
सम्मान मैं ही पाऊंगी।।



- Naina Singh  
IT



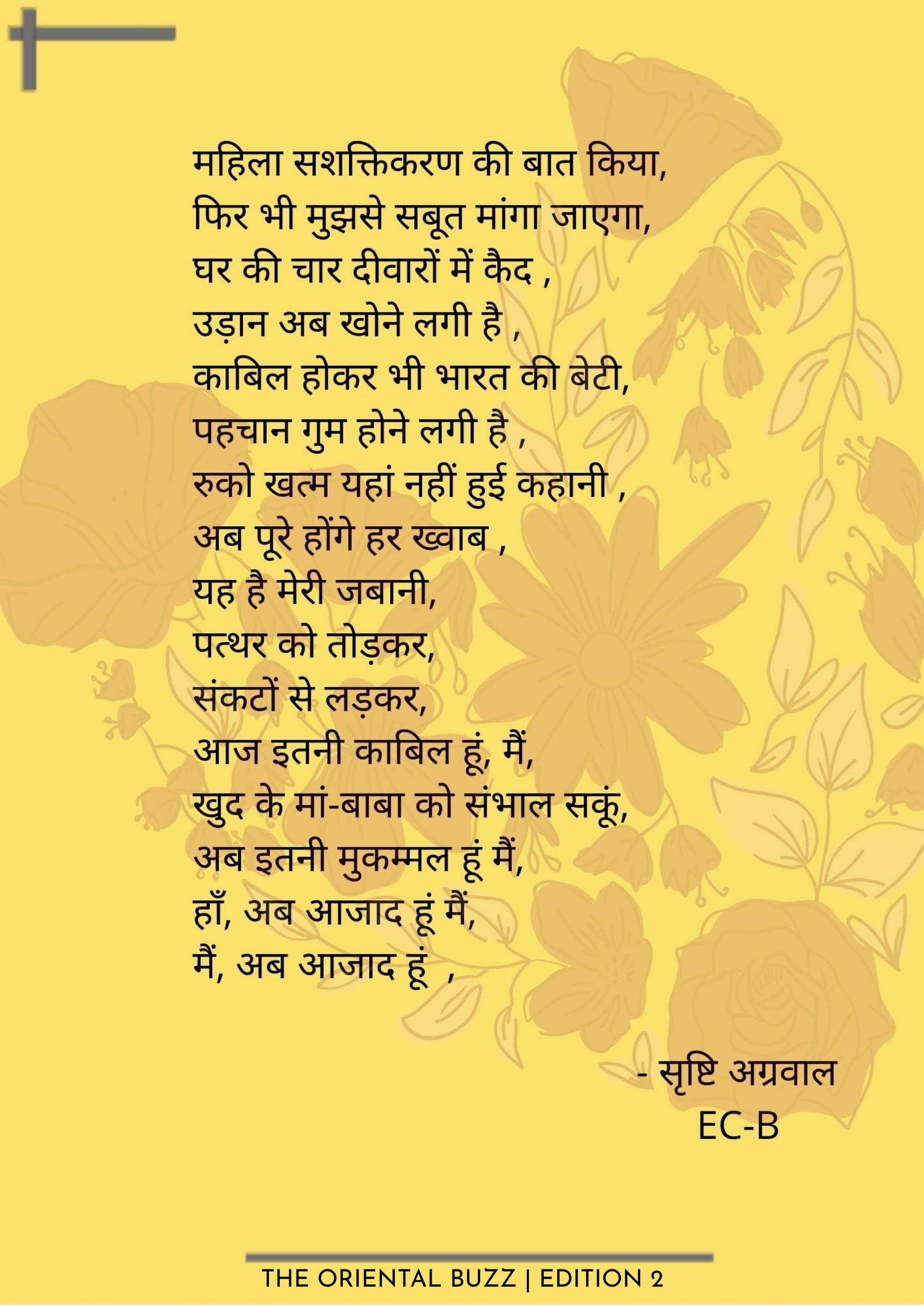
# "DARK SIDE OF THE WORLD"

*"The world pulls you down,  
Whenever you go up,  
When you are happy,  
It comes to interrupt,  
When your talent makes noise,  
It suppresses your voice,  
Here all are selfish,  
Always try to make you foolish,  
I'm innocent therefore my efforts  
In world's view,  
Are meaningless,  
But the stupid one gets opportunity,  
And the world feels dignity,  
It's true,  
When you have power, it appreciates you,  
And when you are helpless,  
Then, yes then,  
You are actually able to see,  
This world's darkness!"*

- Kamal Gajwani  
EC

# अब आजाद हूं मैं

पर ना कतर दे यह जमाना,  
मुझे जमी में उड़ना है,  
ख्वाहिशें पूरी हुई नहीं ,  
मुझे आसमान को नापना है,  
3 साल की जब हुई थी,  
नैनों में सपने बुने थे ,  
बस्ता लेकर भाई सगं जाऊ स्कूल,  
रोज-रोज ये बातें होने लगी थी,  
रेत का वह महल कब बिखर गया ,  
बाबा ने हमें स्कूल ना भेजने का ,  
मन में गहरा विचार कर लिया ,  
यह शायद बात भी सही थी,  
मेरी शादी के लिए दहेज भी देना था,  
फर्क नहीं पड़ता मेरे क्या ख्वाब है,  
बचपन से तो यही बात सुनी थी,  
बेटी तो पराई है यह बात समाज ने कही थी,  
कल्पना की गहराई में , एक घरौंदा मैंने बुना था ,  
शायद वो टूट कर रह जाएगा,



महिला सशक्तिकरण की बात किया,  
फिर भी मुझसे सबूत मांगा जाएगा,  
घर की चार दीवारों में कैद ,  
उड़ान अब खोने लगी है ,  
काबिल होकर भी भारत की बेटी,  
पहचान गुम होने लगी है ,  
रुको खत्म यहां नहीं हुई कहानी ,  
अब पूरे होंगे हर ख्वाब ,  
यह है मेरी जबानी,  
पत्थर को तोड़कर,  
संकटों से लड़कर,  
आज इतनी काबिल हूं, मैं,  
खुद के मां-बाबा को संभाल सकूं,  
अब इतनी मुकम्मल हूं मैं,  
हाँ, अब आजाद हूं मैं,  
मैं, अब आजाद हूं ,

- सृष्टि अग्रवाल  
EC-B

Rickk, look  
what I found!!



What  
is it?



These Certificates!!  
Damn, orientalites are  
talented!!!  
They deserve to be  
appreciated!



# ACHIEVEMENTS



## TIPU SULTAN

Lawn tennis - National  
(U19)

## RITIK MEENA

Basketball - National (U17)  
Cricket- National (U17/U19)



## ANIKET SINGH

Football - CBSE Cluster (U17/U19)  
Martial Arts - National  
Karate - National





## **RICHA SHAKYA**

Drawing and painting -  
National level

## **HIMANSHI VERMA**

Hand ball - National  
(U17/U19)



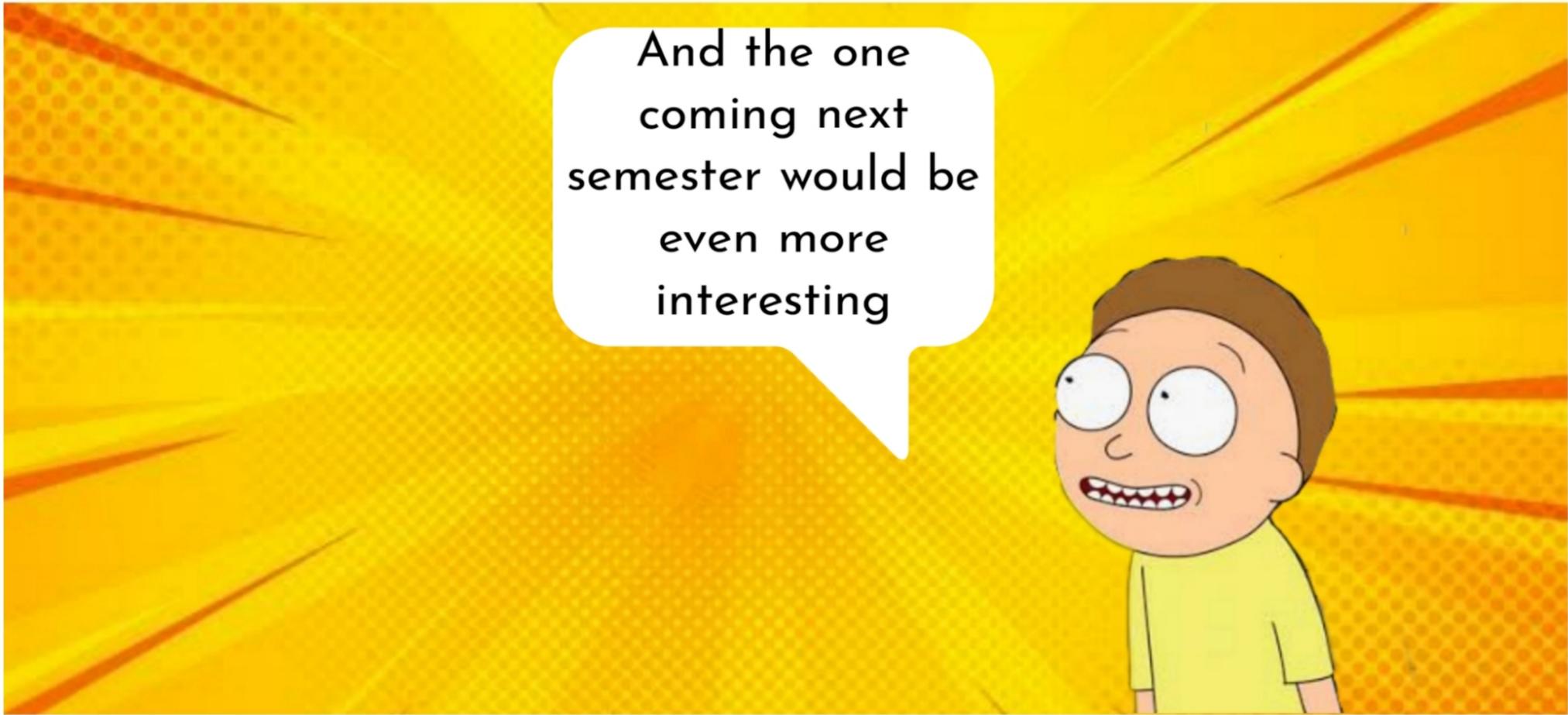
## **SANIYA AKBAR**

Best Delegate - LRIMUN 3.0  
Science Olympiad - 108 AIR  
Urban Biodiversity Watch  
program - 2nd position

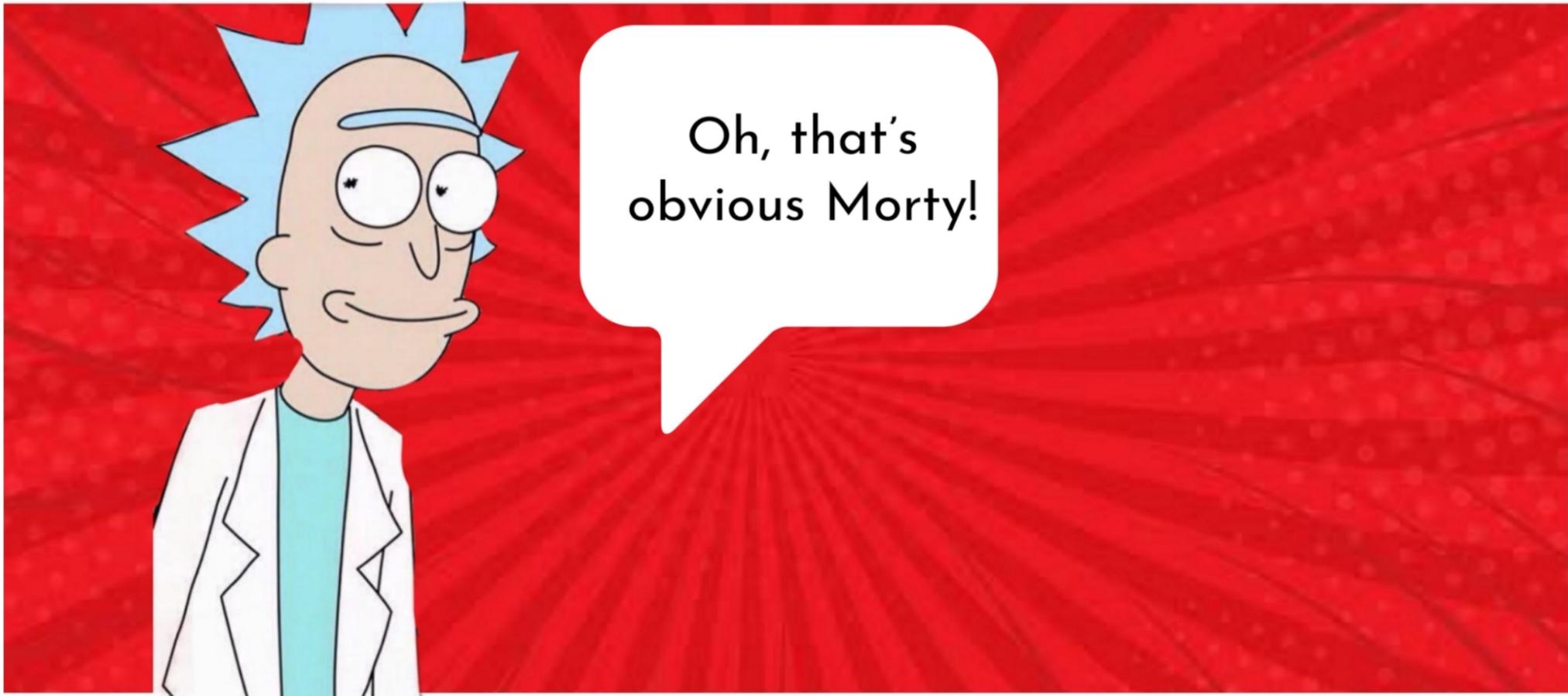




Okay, now we need  
to take leave!  
Hope you loved  
this edition of  
The Oriental Buzz



And the one  
coming next  
semester would be  
even more  
interesting



Oh, that's  
obvious Morty!

# THE TEAM

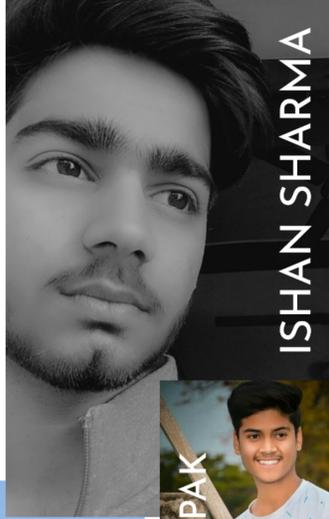
PRATYUSH  
DIXIT



SHRISHTI SINGH



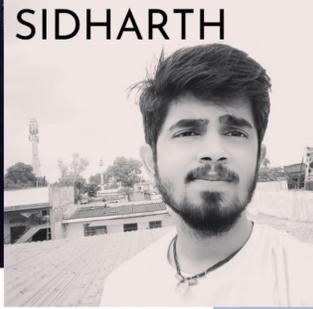
ISHAN SHARMA



Swasti Dwiwedi



SIDHARTH



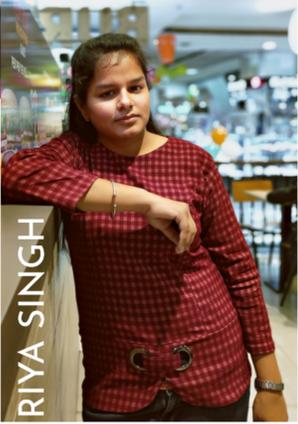
ISHAN CHOUBEY



SAJAL SHITAPAK



RIYA SINGH



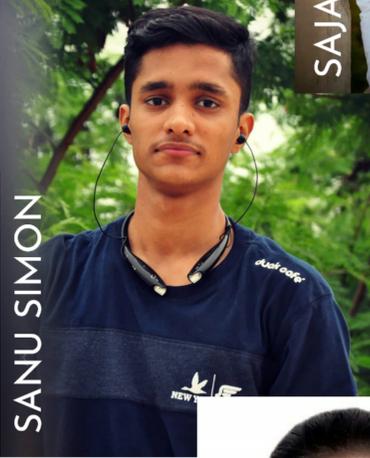
RITIK MEENA



KAMAL GAJWANI



SANU SIMON



SANIYA AKBAR



RICHA SHAKYA



NIKITA DESHMUKH



DEEJA SHANDILYA



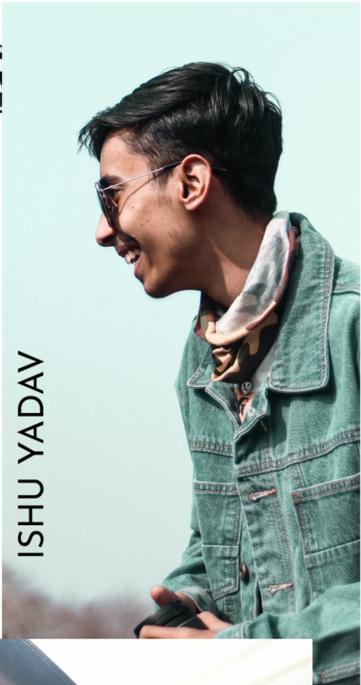
EHTESHAM AHMED



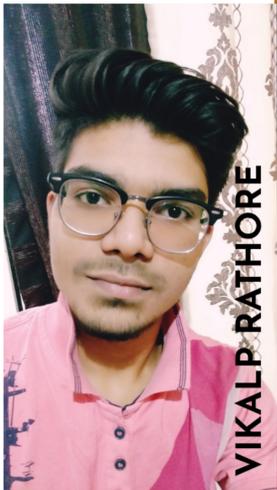
ARYAN CHAURASIA



ISHU YADAV



VIKALP RATHORE



NIKHIL MALVIYA



OM GARG



NUPUR  
NAMDEV





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