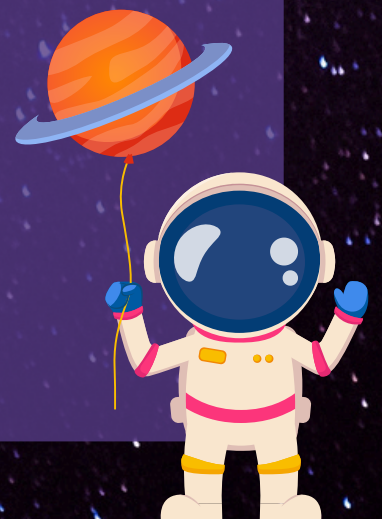# DEPARTMENT OF
INFORMATION TECHNOLOGY

JULY 2023 - JUNE 2024

UNLOCKING
MINDS

P.I.E.T.

IT DEPARTMENTS

VISION

To create globally competent professionals by imparting quality technical education, research aptitude and analytical skills to meet challenges in IT industry, thus contribute to the welfare of society.

MISSION

❀ To nurture students with knowledge and programming skills of different IT domains necessary for development and testing of quality software solutions.

❀ To provide an integrated, responsive and comprehensive academic ecosystem with enhanced teaching and learning to promote intellect and excellence in research.

❀ To mentor students with applied problem solving and critical thinking leading to innovative and sustainable solutions to societal problems.

❀ To collaborate and exchange expertise with industry, research organizations and academic institutions

IT DEPARTMENTS

PROGRAM EDUCATIONAL OBJECTIVES

* The graduates will have core competencies in IT fundamentals necessary to solve hardware, software and integrated engineering problems relevant to IT industries.
* The graduates will be proficiently engaged in development of IT products and services to cater to the industry needs or perform as innovators or entrepreneurs.
* The graduates will successfully pursue higher education or career paths in research.
* The graduates will professionally function with social awareness, responsibility and ethical norms.

PROGRAM SPECIFIC OUTCOMES

* Design, develop and test software applications and project management solutions of real world problems.
* Be competent in emerging areas of Information Technology.

Message form the Director

Dr. Jasbir Singh Saini
(Director)

The vibrancy in the environment of PIET is there for all to witness. The class-room environments are full of motivation for the students. Not only the sharper ones enjoy learning the nuances of different subjects but also the average ones feel a contagious enthusiasm to take a deeper plunge into studies. The richly stacked Library helps all hues of students to find the right mix of course materials. The Library usage figures speak for themselves.

The co-working spaces are an extended arm of richly equipped laboratories & allow cross-fertilization of ideas. AICTE IDEA Lab housing infrastructure worth Rs. 1.16 crore, about 18000 sq. ft. space for Start-up Incubation centre & Makers Lab, Li-Fi Lab with demonstration of about 25 projects, & AR/VR Studio with rich facilities have all resulted in impressive outcomes in terms of a host of patents & research publications.

PIETians haven't lagged behind in sports, rather have given national & even international levels of performance & positions. Sprawling grounds, indoor gymnasium & other facilities provide abundance of ambience for grooming of budding sportspersons.

Abundance of Co-curricular activities infuse a lot of courage & confidence amongst the students who have had stage fright not much long ago.

The Placement & Training office facilitates internships, industrial & pre-placement trainings, placements & industry connect. In so doing, reliance is also placed on expert talks from industry experts, international collaborations & MoUs.

There is an increasing focus on Emerging Technologies, Edu.-4.0, blended learning, & much more ...; all these making life a full circle for young students aspiring to be competent professionals.

Welcome for onboarding the PIET journey & scripting the success story!

Dr. Jasbir Singh Saini
Director

Message form the head of Department

Dr. Neeraj Gupta HOD (IT)

- **PH.D**
- **M.TECH.**
- **B.TECH**

It is a pleasure to head the Department of Information Technology at Panipat Institute of Engineering & Technology. The department offers B.Tech. and B Tech (Honors) degree program in Information Technology. The department has a team of well qualified, experienced and motivated faculty members to prepare the young minds of our students for global competition. Students of IT department are also motivated and ready for IT Industry with hands on experience on current technologies/programming languages. The graduate students of the department regularly appear in the University top positions and mostly working with the core IT companies.

The department regularly organizes various professional development activities and grooms its students with the communication classes and personality development program. Sports, co curricular and extra curricular activities takes place at institute level and students participate in various intra-college, inter-college, inter-university fests/competitions. Our students have their own music band group and won many prizes in different competitions.

Department constantly works for overall growth of students and inculcate the qualities/features that are required and acceptable by Society. Faculty/students take initiative for social causes at individual level and as a team under different banners/clubs of the Institute. Turning a student in to a good and proficient citizen is the prime aim of the department.

FACULTY ADVISORY BOARD

SHILPI GUPTA

"Unlocking Minds" is an amalgamation of Literary and artistic segments from students and faculty members. It also reflects the achievements of students and various activities that take place in the department. It is a prerequisite feeling for me to be a part of this Biannual Magazine.

I want to extend my sincere thanks to Faculty Co-ordinators and Student Editorial Board for their dedication in helping the magazine in a stepwise manner for achieving a milestone. The purpose of this Departmental magazine is to unlock the hidden potential within the students.

Dear Readers, I hope you all enjoy reading this issue.

STUDENT EDITORIAL BOARD

SURESH KUMAR

(Chief Editor)

GINNNI GUJJAR

(EDITOR & DESIGNER)

HARSH

(DESIGNER)

B.Tech.
Information Technology

The Department of Information Technology caters to the emerging requirements of the students who wish to script softwares that render a great assistance to simplify administrative and technical nature of human efforts and can accomplish the astonishing feats in the tech-savvy world. The real strength of the department is the team of active and devoted faculty members who are dedicated to educate and guide students with rapidly changing technological advances. Department imbibe industry wide modern and well operational laboratories with latest hardware and softwares, high speed internet connectivity.

The department has cultivated a vibrant environment conducive to rigorous training, which is exemplary for students to imbibe. Encouragement and guidance is offered to the students for participating in sports and various extra curricular activities to hone and strengthen their non-technical skills. Students are counseled by the faculty on one-to-one basis.

The Department is running two Programs i.e.
- Bachelor of Technology in Information Technology
- Bachelor of Technology (Honors)
  Major Degree: Information Technology
  Minor Specialization: Block Chain, IOT, AR/VR, AI & ML, AI & Data Science, Cyber Security

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LEGACY OF AWARDS

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Amongst State University Affiliated College (Grade AA) by career 360 Volume June 2011

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No.1 in PLACEMENTS in North India

Awarded Best in PLACEMENTS and Academic Excellence

Clean CAMPUS Award-2017 by AICTE

Eligibility
10+2 with Physics, Mathematics as a compulsory subject & Chemistry/Computer Science/Informatics Practices as optional Subject obtaining at least 45% marks (42.75% marks in case of SC/ST category).

The key features of B.Tech (Honors) program are :

- The student can identify one area of minor specialization (mentioned above) along with the major specialization in information technology.
- In contrast to a traditional B. Tech program which is a 4 year(8-semester program) offering 160-course credits, the B.Tech (honors) program is 4 years (8-semester program) offering 180-course credits.
- The traditional 120 credits to be completed as part of the B.Tech (honors) program is evenly spaced out between the 3rd and 8th semesters.
- To successfully complete the B.Tech (Honors) program the student shall need to clear the examinations for the additional 20.
  The examinations shall be conducted as per the AICTE as well as University guidelines.

UNLOCKING MINDS

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UNLOCKING MINDS

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Congratulations

IT 2nd Sem Toppers

NEHA
(2822633)
8.05CGPA

DEEKSHA
(2822622)
7.72CGPA
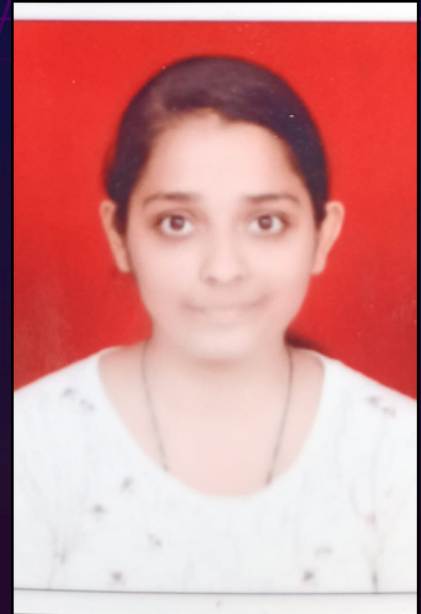
HIMANSHI
(2822628)
7.44 CGPA

IT 4th Sem Toppers

SANYA
(2821647)
8.29 CGPA

SANJANA
(2821632)
8.17CGPA
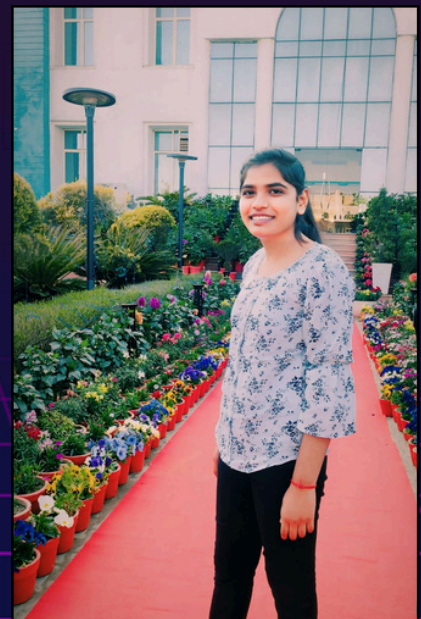
RITU
(2821648)
8.04CGPA

Congratulations

IT 6th Sem Toppers

TIYA (2820516)
8.43CGPA

PRATEEK(2820512)
7.86CGPA

DEEPAK(2820532)
7.57CGPA

IT 8th Sem Toppers

ISHAAN(2819395)

NIHARIKA (2819363)

RANJEET(2819356)

TEAM IT

DR. NEERAJ GUPTA
(H.O.D. IT)
B.TECH., M.TECH., PH.D.

DR. NITISHA AGGARWAL
PH.D., M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

MR. SORABH GUPTA
M.TECH,B.TECH
(ASSISTANT PROFESSOR)

MR. SANDEEP KUMAR
M.TECH,B.TECH
(ASSISTANT PROFESSOR)

MS. HARMINDER KAUR
(ASSISTANT PROFESSOR)
B.TECH. (CSE), M.TECH. (CSE)

MS. NEHA BHATIA
M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

MS. RASHMI MAKKAR
M.TECH., B.TECH., B.ED.
(ASSISTANT PROFESSOR)

MS. URVINDER KAUR
M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

MS. LUCY GARG
M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

MS. SHILPI GUPTA
M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

MS. SUMAN KUMARI
M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

MS. ATISHA DAHIYA
M.TECH., B.TECH.
(ASSISTANT PROFESSOR)

Bhagwat Gita – A Motivational Tool & Management Approach

The Bhagavat Gita which means, Song of the Lord includes all the tactics, principles and strategies of management which if, applied in today's world can be extremely fruitful. The teacher of the Bhagavad Gita is Lord Krishna who has very well explained all the management principles and tactics to his disciple Arjun. It majorly emphasizes on all the Management Principles which are very much relevant today. Long before Peter Ducker, Philip Kotler, C.K. Prahalad, Arindam Chaudhry and other management gurus introduced modern management concepts; Lord Krishna preached all these principles in Bhagavad Gita. As Arjuna was depressed when he saw his relatives with whom he has to fight in Kurukshetra, Lord Krishna told him his duties as a warrior and prince, motivated and counseled him to perform his duty as he faced the problem of conflict between emotions and intellect as we do in today's world and taught all the management principles and tactics like Honesty, Sincerity, Truthfulness etc. so that one gets peace of mind to face all situation. It boosted Arjuna's declining morale, motivation, confidence and increased his effectiveness.

In today's life, most of us are depressed, de motivated, dejected no matter whether we are employees, entrepreneurs or homemakers.Tand due to all these the environment around becomes unfavorable, unhealthy, unproductive. Geeta teaches all of us spiritual enlightenment, the art of self-management, conflict management, stress management, anger management, transformational leadership, motivation, goal setting and many others aspects of management which can be used as a guide to increase HRM (Human Resource Management) effectiveness. Mental health is where the key to success lies. If you are mentally supercharged then you can achieve any milestone in spite of having any physical inadequacy. Bhagwat Gita teaches about "Mind Control" that makes the Personality of a person. Self-discipline & meditation and performing our duties full- flegedly in a disciplined manner is mandatory to control. It says to focus on DUTY. Therefore, by the teachings of "Bhagwat Gita" one is certainly going to excel in his/her job & in life and would able to maintain work-life balance.

By: Aryan kumar
(2821642) 3rd yr.

#WHY MUST WE STRUGGLE#

"IF WE HAVE NOT STRUGGLED
AS HARD AS WE CAN
AT OUR STRONGEST
HOW WILL WE SENSE
THE SHAPE OF OUR LOSSES
OR KNOW WHAT SUSTAINS
US LONGEST OR NAME
WHAT CHANGES COSTS US."

By :-Mansi kumari
(2822876)
2nd year

INFORMATION TECHNOLOGY

The definition of information is presented in various ways in the consulted literature. Information can be defined as a fact, an event, a statement. However, if a fact is not communicated, it will not be information, as well as a statement, without the In fact, it will not be consistent. Thus, a more refined definition for information would be: a communicated fact. Information is a process of transmission and transfer of knowledge: forms, data, and concepts, studies with the aim of making it accessible to another person, institution or society. The quality of this process will determine whether or not the individual's behaviour and attitude change receives the information. It is worth remembering that information is not synonymous with knowledge. The term information has the following attributes: - Considered almost as a synonym for the term fact; - A reinforcement of what is already known; - Freedom of choice when selecting a message; - The raw material from which knowledge is extracted; - What is exchanged with the outside world and not just received passively; - Defined in terms of its effects on the recipient; - Something that reduces uncertainty in a given situation. Information and knowledge are correlated but are not synonymous. It is also necessary to distinguish two types of knowledge: - Raw knowledge - which, transformed into information, can be reproduced, plastered, transferred, acquired, traded, etc. - and - Tacit knowledge. For them, the transformation into signs or codes is extremely difficult since their nature is associated with learning processes, totally dependent on specific contexts and forms of social interaction. There are three different types of knowledge: - Explicit knowledge: it is the set of information that is already based on some support (books, documents, etc.) and that characterizes the knowledge available on a specific topic; - Tacit knowledge: it is the accumulation of practical knowledge on a given subject, which adds convictions, beliefs, feelings, emotions and other factors linked to the experience and personality of those who have this knowledge; - Strategic knowledge: it is the combination of explicit and tacit knowledge formed from the accompanying information, adding the knowledge of specialists

By :-Ginni Gujjar
(2822603) 2nd year

करमा

आज सब बेबस हैंलाचार हैं,

पर शायद कही न कही हम खदु ही

इसकेललए लजम्मेदार हैं,

हम नेहालसल लकया जो

हमनेचाहा और

कभी पीछेमडुकर नही दैखा उसके

ललए हम नेक्या गवाया,

तो आज जो हो रहा हैंउस

केलजम्मेदार हम खदु है

और हमेखदु लक इस मलुककल

को हराना होगा

घर पेरहकर अपनेदेश को लजताना

होगा

By: Shrijal
(2821646) 3rd yr.

IMPORTANCE OF CYBER SECURITY

Cyber Security is defined as technologies and processes constructed to protect computers, computer hardware, software, networks and data from unauthorized access, vulnerabilities supplied through Internet by cyber criminals, terrorist groups and hackers. Cyber security is related to protecting your internet and network based digital equipments and information from unauthorized access and alteration. Cyber Security is now considered as important part of individuals and families, as well as organizations, governments, educational institutions and our business. It is essential for families and parents to protect the children and family members from online fraud. In terms of financial security, it is crucial to secure our financial information that can affect our personal financial status. Internet is very important and beneficial for faculty, student, staff and educational institutions, has provided lots of learning opportunities with number of online risks . There is vital need for internet users to understand how to protect themselves from online fraud and identity theft. .Small and medium-sized organizations also experience various security related challenges because of limited resources and appropriate cyber security skills. The rapid expansion of technologies is also creating and making the cyber security more challenging However, better security understanding and appropriate strategies can help us to protect intellectual property and trade secrets and reduce financial and reputation loss . Central, state and local governments hold large amount of data and confidential records online in digital form that becomes primary target for a cyber attack It is also used to protect from various Cyber Crime like Cyber Stalking, Email Bombing, Sniffing ,Spoofing ,Packet Snipping& Intellectual Property. Theft It can also protect your Business,Protects Personal Info ,Allows Employees to Work Safely ,Protects Productivity &Stop Your Website from Going Down

By: Vishal Tyagi
(2821637) 3rd yr.

Never Stop Learning

On this, your graduation day
all stand and give cheer
to honor you for all the work
you've done to get you here.

As we rise and give applause
be sure you don't forget
that learning is not over
as your future plans are met.

May you always be a listener
and learn from all you meet
always keep a student's spirit
and your life will be complete

By:- Vishal balyan
2822644(2nd year)

Graduation

A celebration...

A time for looking back on lessons learned,
adventures share, bright moments filled
with special meaning.

A farewell...

A time for saying goodbye to old friends,
to good times you've known... a time for
packing away memories, treasures for tomorrow

A beginning...

A time for looking forward, a time to set new
goals,
to dream new dreams, to try your wings and see
what lies beyond

By:- Pragya Verma
(28231272)
2nd year
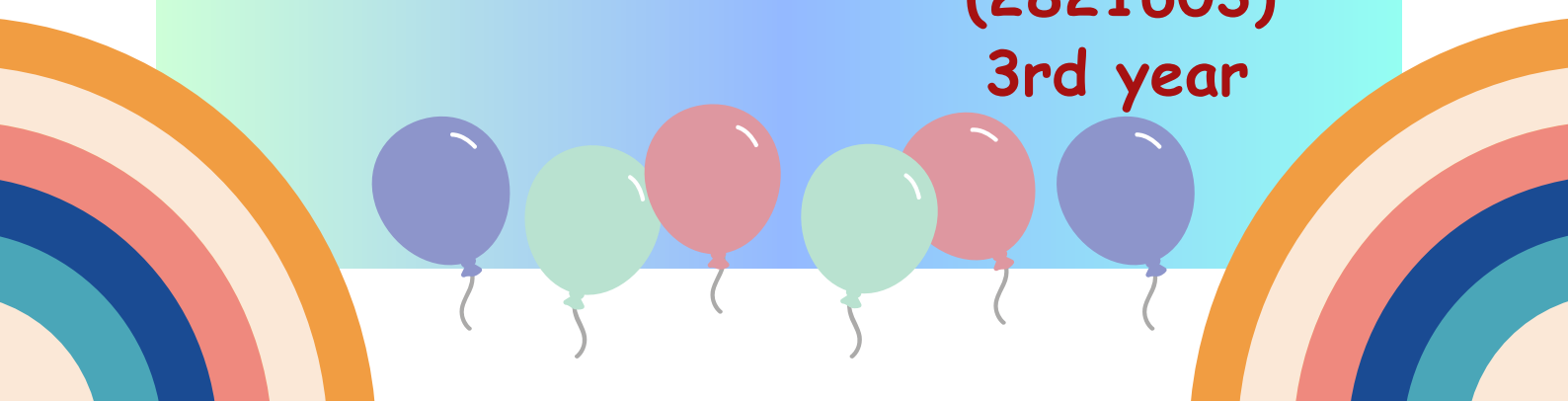
TRUE SUCCESS

One hundred year from now

It won't matter what can I drove

What kind of house I lived in,

How much I had in my bank account,

Nor what my clothes looked like;

But, the world may be a little better

Because I was important in the life

Of a child

By:-Abhishek Mishra
(2821603)
3rd year

A love that never dies

There was that crowded place
She crawled around looking for her favorite face
Suddenly she smiled and took a pause
There her mother was.

From alphabets to numbers
And shapes to colours
Her mother taught her all those days
Standing by her in every phase.

School was over and it was time to move on
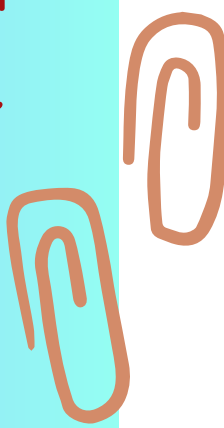Away from her mother she was now gone
Her mother had taught her to be strong
But how could she live without her for so long.

There were those days when life got a little messed
Moments when she needed some rest
A call from her mother seemed to make everything clear
'Life is hard but there is no need to fear'.

And hence two decades went by
And now she was some twenty
Happy she was still when told by others
That her face resembles her mother's.

All of a sudden there was a sigh
When she realised that in another city miles away
Her mother was too growing old
And she couldn't even put the time on a hold.

By:- Mayank
(2822619)
2nd year

A Guy Who Was Late!

It is the story of a late man for an outing who showed up at a railroad station. He bounced onto the most readily accessible train. He napped off for some time. After awakening saw the train thundering along at max throttle towards an obscure objective. He started asking everybody where the train was going. He demanded that the train stop to let him off. The more energized he became. The more different travelers, shockingly quiet and undaunted, appeared to be baffled by his conduct. At long last, an old man, advised him don't you realize this train has just a single objective? There's nothing left but to utilize our lifespan to foster the brain looking for edification for us and others. We have it that one day we will bite the dust – so even though you can't handle that. You can make the best out of this train ride called life.

Moral Lesson: Rather than revealing the dimness, light a flame and make light and make the best out of every day. You have this to inspire you!

By:-Tanishq
2822629
(2nd Year)

Invigorate Your Dreams

"You have to dream before your dreams can come true", aptly said by the 'People's President', Dr. APJ Abdul Kalam. Dreams serve as our goals, as long as we believe in them and constantly follow them. Life without dreams is like the night sky without stars; no sparkle, no shine, no vigour and all darkness everywhere. The essence of life is in doing and enjoying things that makes you happy. If we let go of our dreams, then life serves no purpose. The dream to be 'healthier', comes along with the commitment to lead life in the so called 'healthier' way. It further paves the way to actions. First, set the goal that finally helps in achieving the dream and then perform to attain the goals. Initially the gap between the goal and the dream would be enormously large. As we set higher and higher goals, this gap diminishes. Of course, as the intensity of goals increases, the efforts needed to achieve these goals would also increase. But the ultimate dream of attaining success would truly be a motivation to put in more and more efforts at each stage of the goal achievement process.

All of us are unique and capable enough to do meaningful things in life. But being 'unique' makes the difference. Dreams enlighten the so called 'uniqueness' of an individual. We need dreams to cope up with the stresses we have in our everyday lives. But, if we give up, we end up nowhere. The path of fulfilling dream is not always smooth. Setting the right goals and choosing the right way of achieving the goals is equally important.

Here comes the need of invigorating our dreams. Dreams pave the way to success. No matter how we need to succeed in life, our dreams can always get us there. It being cracking a job interview, or starting own business or learning something challenging, dreams will help us succeed in all ways. Just believe and follow them. They would definitely lead to a state of positivity.

The dream of one's life is not essentially the pictures he sees in his sleep. The dreams in our sleep would no longer be a part of us, once we are awake from the sleep. But the dreams of life comes true only when we are awaken. So the right dream can lead one to the most peaceful state of mind. The satisfaction of achieving such a dream is again the motivator to dream and dream.

Pan-Digital Formula

A pan-digital formula is one that is built by using all digits. The following formula was given by Richard Sabey in 2004:

$$\left(1^0 + 9^{-4^{6\times7}}\right)^{3^{2^{85}}}$$

This formula accurately gives the first 18, 457, 734, 525, 360, 901, 453, 873, 570 digits of e, or *Euler's number*.

PROOF: Let $x = 3^{2^{85}}$.
$\therefore x = 3^{2\times2^{84}} = 9^{2^{2\times42}} = 9^{4^{6\times7}}$
$\therefore$ formula has the form $\left(1 + x^{-1}\right)^x$
Standard formula: $\lim_{x\to\infty} \left(1 + x^{-1}\right)^x = e$

Source: *Numberphile* channel on youtube.com

By:- Neha
2822633(2nd year)

A WISE MAN'S AND HIS THRIVING JOKES

A wise man once confronted a gathering of individuals who were whining about similar issues again and again. At some point, rather than paying attention to the grumblings.

He made them a wisecrack. And everybody laughed out loud snickering. Then, at that point, the man rehashed the joke. A couple of individuals grinned.

At long last, the man rehashed the joke a third time-however, nobody responded. The man grinned and said, "You will not chuckle at a similar joke more than once.

So what would you say you are getting from proceeding to gripe about a similar issue?"

Moral Lesson: You're not going to go anyplace if you continue to whine about a similar issue yet never really fix it. Try not to burn through your time whining, anticipating that other people should keep on responding to your grumblings.

All things being equal, make a move to roll out an improvement

By:- Tanisha Garg
2822648

Depression – A Hidden Illness

When we get a cut on our hand, it bleeds and we know whether to put a bandage or visit a doctor, because we can see the cut and feel the pain. But, nostalgic feeling persisting in your body, mood swings, restlessness, loss of enjoyment in things that were once pleasurable, fatigue, anxiety, feeling of loneliness, feeling helpless... What are all these feelings exactly? What do they signify? Why does a person feel this way? Does this remain just for a while or last forever? Well, all these thoughts and feelings are blindfold indications that you are not well, and there is no physical injury inflicted. You cannot determine whether there is any need to even ponder on this situation or not.

So, when one feels this way, how do we usually react to it? We often try to neglect it assuming that I am feeling this way because of so-and-so reason. It imbalances our emotional health which is reflected by the change in our behavior. The thing now is—do we want to live our whole life going through such a phase in life or such a persistent feeling taking control over our well-being? Well if you think NO, then there is real need to understand WHY, HOW, WHEN, WHERE of these situations and an answer to these questions.

Well friends, every other person you meet is feeling the same that you are going through and there is no need to hide such a feeling. Emotional imbalance is often related to person's inability to do things on their weakness. In student life, what I observed is FEAR, GUILT, PAST, CAPABILITY and RELATIONSHIPS are the most common reason why we get into something which is fancily called DEPRESSION. Each person wants to be heard, but now questions arise: With whom shall I share? Will people mock at me? What will they think of me? Shall I consult a psychologist? Ohhhh, please, I am not mad; it's just I am feeling down because of x reason. And endless questions and fears start engulfing your mind. But one should at least once visit a psychologist to understand a cause or at least to open up your heart to someone who can understand you. He would initially council you, try to help you get on track, and give you some motivational advice so that you feel good and get energized. But if it still persists, then there is a real need to exactly understand the problem.

The various emotions we experience are the result of chemical reactions taking place inside your body. The hormones released inside our body may either make us feel good or make us feel bad. Stimulating the production of feel-good hormones can help easy your agony till you are able to deal with the problem at hand. Your body exists in two states—fight-or-flight (or sympathetic state) and digest (or parasympathetic state). Due to everyday stress, you are in a fight-or-flight state. It is the neurotransmitter that helps control the brains reward and pleasure centers. It keeps you mentally alert. A hormone named DOPAMINE is induced for this.

There is another hormone, a happy hormone named SEROTONIN that regulates your body's sleep cycle and temperature. It controls your appetite and lowers sensitivity to pain. It is this hormone that makes you feel satisfied or we can say, it is a mood-enhancing hormone. Serotonin is produced through Vitamin D (it synthesizes hormones which influence neurotransmitter production), carbohydrate rich foods, black pepper (it contains piperine that

inhibits depression-inducing hormones), and massage and exercise.

The feel-positive hormone ENDORPHINS reduce anxiety and act as a sedative. Endorphins are produced through exercising and sweating, and acupuncture. Another hormone, OXYTOCIN, also called love hormone, increases bonding, social behavior and closeness between parents, children and couples. In women, it is produced during childbirth. It reduces stress responses and motivates you to seek support. It is produced through spending time with loved ones, and through physical intimacy.

Now with this clarity in mind, I hope I have succeeded in throwing light on the need of consultation during this phase. There is hormonal imbalance and so I suggest a need to consult a psychologist for further assistance if these feelings persist for long. Dear reader, please try to understand what your friend, family member, or any person for that matter is going through and that your love, compassion, support can be life transforming change for that person. The help you have to provide is free of cost and the best gift you can provide to humanity. There are lot of people suffering with depression and since they didn't get any help or there was no one to understand and help them have eventually ended up their lives. They were not weak, they were ill and needed your help.

Parents play a very important role in this. So, sudden behavioural changes as a symptom of depression should be noticed. Parents should ask his friends, enquire in college to know whether he has some problem that you are not aware of. Start being friendlier to him, gain his confidence that you will not mock at him for whatsoever reason and forgive him and help him in this stage.

There are 332 million people in the world affected by depression, and 56 million of them are living just in India. This is the saddest truth of our country. It is mostly the younger generation that is being affected by this, and they feel so helpless that ending their lives feels simpler for them than living. But we should never forget what our parents do for us, and seeing us succeed is the only joy they cherish. We children should respect their sacrifices and efforts that they make for us, and should not let it all go waste just by ending our lives. There are many people who would come forward to help you, guide you, only if you ask for it.

Positively Puzzled (Solutions)

Solution 1:

Let x = age of man at time of death

$\therefore x = x/6 + x/12 + x/7 + 5 + x/2 + 4$

$\Rightarrow x = 75x/84 + 9 \Rightarrow x = 84$ years

Alternate Solution 1:

The man lived 1/12 of his life as a teenager. There are seven teen years. $\therefore 7 \times 12 = 84$.

Solution 2:

$9.99999\cdots$ is an infinite geometric sum:

$\therefore 9\left(\frac{1}{10}\right)^0 + 9\left(\frac{1}{10}\right)^1 + 9\left(\frac{1}{10}\right)^2 + \cdots$

$= \dfrac{9}{1 - \frac{1}{10}} = 10$

$\therefore$ there is nothing wrong with the proof.

Alternate Solution 2:

$a = 9.9999\cdots = 3 \times 3.3333\cdots$

$= 3 \times (10/3) = 10$

$\therefore$ there is nothing wrong with the proof.

Solution 3:

- At time 0, start hourglasses A (7 mins.) and B (11 mins.).
- After 7th min., A runs out. Turn A around.
- After 11th min., B runs out, and A completes 4 mins. Turn A around.
- After 15th min., A runs out. Stop.

Solution 4:

- At time 0, start hourglasses A (4 mins.) and B (7 mins.).
- After 4th min., A runs out. Turn A around.
- After 7th min., B runs out, and A completes 3 mins. Turn B around.
- After 8th min., A runs out, and B completes 1 min. Turn B around.
- After 9th min., B runs out. Stop.

Solution 5:

Let x and y be no. of marbles in small and large bags. $\Rightarrow 7x + 18y = 233$, $x, y \in \mathbb{Z}, x < y$

We can't solve one equation with two unknowns. But we will try to tighten the bounds on x and y.

Assume $y = x$. Then,

$7y + 18y = 233 \Rightarrow y = 9.32$

If $y \leq 9.32$, then $y < x$, which is not allowed.

$\therefore y = 9.32$ is lower bound. $\because y \in \mathbb{Z}, y \geq 10$.

Assume $x = 1$. Then,

$7 + 18y = 233 \Rightarrow y = 12.555$

When $x > 1$, y reduces. $\therefore y = 12.555$ is upper bound. $\because y \in \mathbb{Z}, y \leq 12$.

$\therefore y \in \{10, 11, 12\}$. Substituting each into equation, we get x as 7.57, 5 and 2.42 respectively.

$\because x \in \mathbb{Z}$, solution is $x = 5, y = 11$.
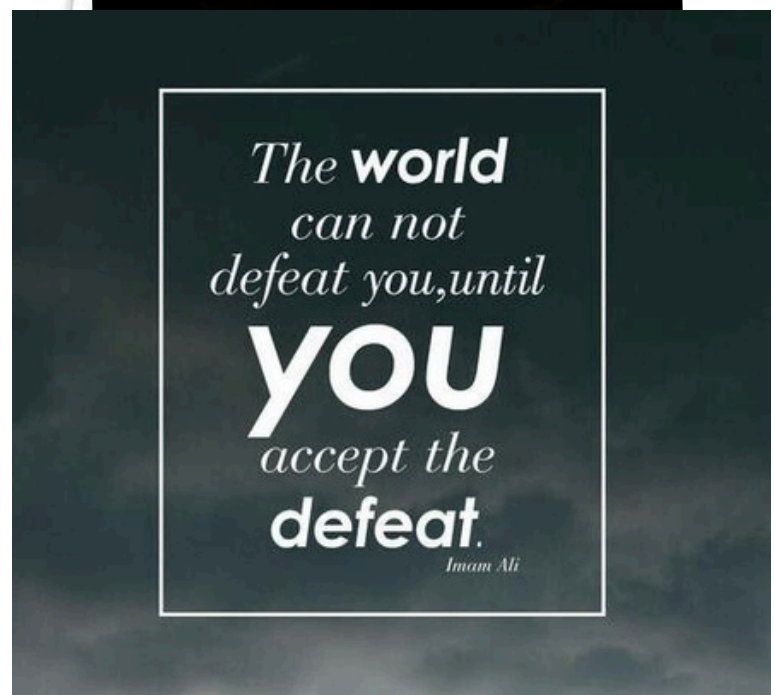
By:- suresh kumar
3rd year

The Final Attempt

Once a mountaineer went for his dream tracking to Roughest Weather Mountain. He went all prepared and after setting his camp he started his upward journey. He could reach to the top in a very quick time, but on the return journey, the weather deteriorated drastically. High speed wind with the heavy snow fall was making it impossible for him to descend. He was unable to see even his feet due to frost around. He just wanted to reach his base camp at the earliest in order to save his life. He continued his efforts for quite a long and found it to be in vain as his speed was very slow. He decided to stop in way and wait at the same place so as to save his energy till weather gets better. After 4 hours when finally the clouds gave way to sun, he was DEAD. He had succumbed to hypothermia.

It's tragic, right? Very tragic!!!!

The worst part is He died just 5 meters above his base camp where all necessary aid was there to save his life. He died just before his final attempt.

Moral: Open to Interpretation...

A FINAL ATTEMPT EVEN AFTER FAILING SEVERAL TIMES IS ONE AND ONLY WAY TO SUCCESS.

- Milind Audichya

The **world** can not defeat you, until **YOU** accept the **defeat.**

Imam Ali

By :-Adarsh
2821652(3rd year)

The Real wealth

One day, a rich man decided to take his son on a trip to the country. The wealthy man wanted to show his son how the poor people live so he could be thankful for his wealth.

They spent two days on a farm of a very poor family. On their way home, the rich man asked his son, "How was our trip with this poor family and what did you learn?"

The son answered, "I saw that we have servants to serve us, but they serve others. We have one dog and they have four. We have imported lanterns in our gardens and they have stars at night. We buy our food, but they grow theirs. We have a big pool in our garden, but they a creek that has no end. We have large walls to protect us and they have friends to protect them "Finally, the son added, "Thanks dad for showing me how poor we are."

By:- Aditya
2821604(3rd year)

Smartphone Addiction

What the hell!
Smartphone has made everyone enthral.
It is neither fake nor a lie,
Spectacles are seen on everyone's eye.

In a shop, office, home or sitting alone,
No work done today in the absence of smart phone.

Youth, middle aged or old,
Looks like they all watching mobile phones recklessly,
with their brain sold.

Student's grades are getting low,
At last they just say Oh! no,
Holding their teacher's and parent's toe,
Ensuring that they will enhance,
Just in flow.

Everyone has become smartphone addict,
After realization of time wasted on it ,
Our mind says 'Oh! shit' .

On proper utilization of smartphone,
We will definitely get a full fledged tree,
With the seed which was sown.

By:- Chirag
2821610(3rd year)

THE ELEPHANT ROPE

A man was walking nearby to a group of elephants that was halted by a small rope tied to their front leg. He was amazed by the fact that the huge elephants are not even making an attempt to break the rope and set themselves free.

He saw an elephant trainer standing beside them and he expressed his puzzled state of mind. The trainer said "when they are very young and much smaller we use the same size rope to tie them and, at that age, it's enough to hold them.

As they grow up, they are conditioned to believe they cannot break away. They believe the rope can still hold them, so they never try to break free."

Moral: It is the false belief of the elephants that denied their freedom for a lifetime. Likewise, many people are not trying to work towards success in their life just because they failed once before. So keep on trying and don't get tied up with some false beliefs of failure.

BY:- JAYANT
2822666
(2ND YEAR)

ON BEING A STUDENT

Time rushes by,
Waiting no one in a line,
Leaving someone to
A great possibility'
A possibility holding the torch,
Knowledge only's treasure,
The wisdom for students.

The struggle of identity,
Makes one to dream for the stars,
A star of guidance spotlights,
Their very inner self as student,
to function as human in hunger,
The concrete model of perseverance
to earn the ceritificate's or
a diploma in an instant,
But being a student,
A plane of struggles is in your palm

By:- Himanshi
2822628.

Lockdown - A So-called Nightmare

Thanks to the corona virus, I now know the number of tiles at my house. When I first found out about the lockdown, I totally freaked out. The nightmare had already begun, staying home with my family, not meeting my friends, not eating street food. To be honest, I was totally bored, I didn't know what to do all day. I even got bored of reading books and watching series. But then I realised, time had stopped during lockdown. Everybody now had the time to do the activities that they've always wanted to do. Staying at home I gave more time to myself, to explore my interests, enhance my skills and nurture myself. I started painting, practising tabla, cooked food (which I never thought I could've). I had time to think about where my life was heading, where I really wanted to be in the future. I realised I can't let this lockdown stop me from growing. No matter what the circumstances one must always grow and grow. We've all been at a point in life where everything is messed up and we can't find a way out. This is the time to sort everything. Lockdown teaches us that to be happy we don't really need anybody, we should entertain ourselves, make ourselves happy. This is what I've done in the past 3 months, I've made myself happy.

By:- Himanshu
2821614(3rd year)

DECIDES WHO

TIME-->

DECIDES WHO YOU MEET IN YOUR LIFE

HEART-->

DECIDES WHO YOU WANT IN YOUR LIFE

BEHAVIOUR-->

DECIDES WHO WILL STAY IN YOUR LIFE

BY-ZUBAIR
2822602

MOTHER NATURE

MOTHER NATURE'S GLORY
AND HER SIMPLE STORIES,
MY GRANNY USED TO TELL,
BESIDE THE VILLAGE WELL.
SHE WOULD LEAD US TO THE MOUNTAINS,
HIGH ABOVE THE SKY, FREELY FLOWING FOUNTAINS.
AMONG THE CLOUDS WE WOULD FLY UNSCATHED,
OUR IMAGINATIONS, LIKE FLEDGLINGS NEWLY HATCHED.
BUT, GONE ARE THOSE DAYS OF CAREFREE STORIES,
NATURE'S HEART SOAKED IN WORRIES.
MAN'S RELENTLESS EXPLOITATIONS,
CONSUME NATURE WITHOUT HESITATION.
NATURE BLEEDS RED WITH RUST,
HER CROWN DECORATED WITH DUST.
OH! HEAR THE PLEA, EVERY NATION,
RESTORE MOTHER NATURE,
AND SAVE EVERY FUTURE GENERATION.

By-Shivam Saini
2822673(2nd year)

अग्निपथ

वृक्ष हों भले खड़े,
हों घने हों बड़े,
एक पत्र छाँह भी,
माँग मत, माँग मत, माँग मत,
अग्निपथ, अग्निपथ, अग्निपथ।

तू न थकेगा कभी,
तू न रुकेगा कभी,
तू न मुड़ेगा कभी,
कर शपथ, कर शपथ, कर शपथ,
अग्निपथ, अग्निपथ, अग्निपथ।

यह महान दृश्य है,
चल रहा मनुष्य है,
अश्रु श्वेत रक्त से,
लथपथ लथपथ लथपथ,
अग्निपथ, अग्निपथ, अग्निपथ।
-हरिवंश राय बच्चन

THE PROUD ROSE 🌹

Once upon a time, in a desert far away, there was a rose who was so proud of her beautiful looks. Her only complaint was growing next to an ugly cactus.

Every day, the beautiful rose would insult and mock the cactus on his looks, all while the cactus remained quiet. All the other plants nearby tried to make the rose see sense, but she was too swayed by her own looks.

One scorching summer, the desert became dry, and there was no water left for the plants. The rose quickly began to wilt. Her beautiful petals dried up, losing their lush color.

Looking to the cactus, she saw a sparrow dip his beak into the cactus to drink some water. Though ashamed, the rose asked the cactus if she could have some water. The kind cactus readily agreed, helping them both through the tough summer, as friends.

The Moral : Never judge anyone by the way they look.

By-Nakul
2822630(2nd year)

THE TRUE FRIEND

The friend I can trust
Always remembers what we discussed.
Helps me when I have a frown
Even when everything goes down.

By my side all the way
Even till this beautiful day
Now I want to see
If they will always be with me.

Now we observe and think of old memories
And try not to make any enemies
For we are each others companion
And we will never abandon.

By:- Jiya Mandal
2821612(3rd year)

the Singing Bird!

Once there was a girl who had a bird that loved to sing! the bird usually sits on a window and sings beautifully. But the girl was a bit rude and didn't like her bird to sing.

One day the girl was sleeping and the bird started singing, the girl got disturbed and tied the bird's beak so it wouldn't sing again.

the next day when the girl was awake, her mouth was not spitting a single word. She was in pain and couldn't breathe properly.

The whole day she was in that awkward situation. And at night she suddenly saw that bird and realized that the bird might be suffering from the same situation.

She then opened her mouth and set the bird free. In just a few seconds, the girl's mouth becomes back to normal!

Moral Lesson: Don't do or say anything that you can't bear yourself!

By:- Daksh

2821615(3rd year)

Value Of Hard Work - Inspirational Story

A man who used to ran a successful business in the city was a father to a very lazy and sluggish boy. His son was a careless spender too but never even helped anyone in need with his money.

The father was very upset to see his son like this and decide to teach him a lesson.

The next day he made an announcement to him: "You will only be given meals at night only if you earn something in your day."

The boy in disbelief went to his mother asking for sympathy and confirming that his dad is not joking. The mother could do nothing except feeling sorry for him
As a token of help, she gave him a gold coin.

At the night on the table, when the father asked, the boy showed his gold coin promptly.

His father knew he didn't earn it on his own. He asked his son to throw it into the well in the garden. The boy did so without
any hesitation.

The father sent his wife to her parents, knowing she won't stop herself from helping his son. Next morning when the boy woke up and didn't find his mother around. He went to his grandfather and told him about his dad.

His grandfather also felt sorry for him and gave him another coin.

When the father asked him about that day's earnings, he again came up with a gold coin. Knowing the fact, he went to his father explaining to him, "I want to teach my son a lesson."..........

...
When the boy couldn't get anything from his grandfather, he went to the market to earn something in reality. He met a shopkeeper there and asked if he could offer him some work.

The shopkeeper looked at the boy and said: "If you carry this heavy trunk to my home. I'll give you three silver coins."

The boy agreed to this but after the work, he felt exhausted and drenched in sweat. He was very happy to earn three coins by himself. He rushed home to show it to his father.

The father appreciated him this time but again asked him to throw them in the well.

The boy almost got into tears and defeatedly said: "Father! My whole body is aching and I gave my best to earn these. And you're asking me to throw it in the well?"

The father smiled, "So, now you feel that when the fruits of your hard labor are wasted how does it feel like? You didn't hesitate to throw those gold coins who you didn't earn yourself but now you understand the worth of hard work and how much it took me to collect all this money. Definitely not to waste on lame things, you do."

The boy was regretting every moment of it and thanked his
dad for his greatness.

The value of hard work is not only hidden in its reward but the degree of achievement too.

By:-Mahak
2821618(3rd year)