SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
Accredited by NAAC with "A+" Grade & ISO 9001:2015 Certified Institution
Athipalayam, Coimbatore - 641 110. Web site: sriet.ac.in Ph: 0422 2697792

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECHNICAL MAGAZINE
TECH TRENDS
2022-2023

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About SRIET

Sri Ranganathar Institute of Engineering and Technology (SRIET), came into existence in 2011, out of an ardent desire of Dr. V. Narayanasamy to contribute manifold to the society that nurtured him. SRIET is an Innovative Educational Institution where the curiosity, creativity and intellectual joy of students all drive to academic excellence. Our Institution provides complex problem-solving skill and imbibes service to the public good. SRIET is defined by strong association and working in ways that excel in traditional boundaries SRIET's academic excellence is rooted in a student-centered model of learning. The Curriculum is an accurate approach to education that pushes the students to be creative thinkers, intellectual risk-takers and entrepreneurial problem-solvers. SRIET leaves students prepared to thrives as independent and innovative leaders and equipped with the tools they need to become the next generations of leaders in their respective fields.

INSTITUTE VISION AND MISSION

VISION OF THE INSTITUTE

To be a unique Institution that enables students to become contributing Humans towards technology business and sustainability of natural world.

MISSION OF THE INSTITUTE

Our mission is to facilitate students with harmonious teaching and experiential learning by integrating industrial and societal needs with curriculum, providing requisite infrastructure facilities and imbibing ethical values.

QUALITY POLICY

SRIET is committed to provide quality learning experience to students by adopting continual improvements in management system, infrastructure and competence of faculties.

ABOUT OUR DEPARTMENT

The Department of Computer Science and Engineering is committed to provide unique learning for innovation, impart knowledge in cutting edge technologies and aiming to be a key regional, national and international center for the development of computing and its application. The department offers B.E CSE Education with high technical quality through committed faculty, hardworking staff and students aimed towards job success and professional excellence.

The department is approved by AICTE and affiliated by Anna University, Chennai and has placed emphasis on the important aspects of computing in the areas such as Internet of Things (IoT), graphical database systems, cloud computing and many more. The department provides a learning platform for the students to achieve their computer and information technology career goals.

DEPARTMENT VISION

Our vision is to empower students with cutting-edge software programming skills, adaptability to evolving technological landscapes, and heightened competence, ensuring their readiness for dynamic industrial challenges and optimizing their employability prospects.

DEPARTMENT MISSION

- Enlightening young generation with effective pedagogies and hands-on practice and advanced skills.
- Stimulating the interest of students through add-on courses for better collaborative learning and employability.
- Providing guidance on innovative research and leadership proficiency.
- Inculcating human values along with social skills.

PROGRAM OUTCOMES (POS)

PO1 - Engineering Knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2 - Problem Analysis:

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 - Design/Development of Solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 - Conduct Investigations of Complex Problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 - Modern Tool Usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 - The Engineer and Society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

PO7 - Environment and Sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 - Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 - Individual and Team Work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 - Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 - Project Management and Finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 - Life-Long Learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1 - Addressing societal problems through design and development of software and firmware solutions using latest Computer Science tools and technologies.

PSO2 - Involving enthusiastically in software development, software testing, storage, computing and business intelligence sectors

PROGRAM EDUCATIONAL OUTCOMES

PEO1 - Have successful career or pursue higher studies and research or emerge as entrepreneurs

PEO2 - Indulge in problem identification, analysis and formulation to provide technically Superior, economically feasible, environmentally compatible and socially acceptable design Solutions in computer science and allied domains.

PEO3 - Contribute towards entrepreneurship, research, exercise and leadership through Effective communication, teamwork and knowledge up gradation through lifelong learning.

EDITING MEMBERS

CHIEF EDITOR

Dr.S.LAVANYA ASP/HoD CSE

FACULTY EDITOR

Mr. C. MAHESH M.Tech
Assistant Professor/CSE

STUDENT EDITOR

M.SURENDRAKUMAR III-CSE

D.SACHINKUMAR II-CSE

From Management's Desk:

Shri. V. Narayanasamy "Best Methods Man – Steel Foundry", Chairman of SRI Group with 40+ years of rich Industry experience established Sri Ranganathar Institute of Engineering and Technology (SRIET) in 2011, an Industry Integrated Institute to offer quality Engineering Education

From the Principal's Desk:

"Welcome to our SRIET, on behalf of all of our faculty, staff and students…

In today's competitive global world, a skilled technical education is becoming increasingly important for future success.As Principal, I am extremely proud of our college's rich tradition of providing valuable, experience-based engineering education since its inception. Our programs prepare students to become leaders with the moral depth and intellectual rigor required to meet the challenges of a critical societal transition. We offer individualized, high-quality education delivered by an experienced and well-qualified faculty who bring objectivity and a practical focus to their classrooms. We attract students from a wide range of ethnic and cultural backgrounds, resulting in a vibrant and stimulating classroom environment.With this message, I'd like to wish all of our students, alumni, and future students a very positive and effective experience together."

Warm regards,

Dr. H. Ganeshan, M.E., Ph. D.,Principal

Message from HoD's Desk:

Warm greetings!!

A warm welcome to Computer Science and Engineering. The department has highly committed faculty fraternity with pioneering pedagogy, puts constant effort towards knowledge. "The Expert in anything was Once a Beginner". Begin enthusiastically, achieve greater heights

Warm regards,

Dr.S.LAVANYA ASP/HoD CSE

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

TOPPERS

V G. SRIRAAM II-CSE

R. SATHISH
III-CSE

S.SELVABHUVANESWARI
IV-CSE

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PRODUCT DEVELOPMENT

Real Time Biometric ATM Secure System

Humans recognize each other according to their various characteristics for ages. We recognize others by their face when we meet them and by their voice as we speak to them. Identity verification (authentication) in computer systems has been traditionally based on something that one has (key, magnetic or chip card) or one knows (PIN, password). Things like keys or cards, however, tend to get stolen or lost and passwords are often forgotten or disclosed. To achieve more reliable verification or identification we should use something that really characterizes the given person. Biometrics offer automated methods of identity verification or identification on the principle of measurable physiological or behavioral characteristics. The characteristics are measurable and unique. Biometrics is the development of statistical and mathematical methods applicable to data analysis problems in the biological sciences. Physical characteristics such as fingerprints, retinas and irises, palm prints, facial structure, and voice recognition are just some the many methods of biometric encryption. Depending on the context, a biometric system can be either a verification (authentication) system or an identification system. Biometrics is a rapidly evolving technology which has been widely used in forensics such as criminal identification and prison security. Recent advancements in biometric sensors and matching algorithms have led the deployment of biometric authentication in a large number of civilian applications. With the increased use of computers as vehicles of information technology, it is necessary restrict access to sensitive/personal data. Real- time biometric systems can be used prevent unauthorized access to ATMs, cellular phones, smart cards, desktop PCs, workstations, computer networks and electronic banking

PROJECT GUIDE

MR. C.MAHESH, M.TECH(IT)

ASSISTANT PROFESSOR/CSE

PROJECT MEMBERS

DEEPAK. K

GANESHKUMAR.C

SURYAPRAKASH.A

THE IMPORTANCE OF BEING EMINENT

As social media is becoming more prevalent, and people and companies are using it to make purchasing and hiring decisions, the role of social eminence is becoming critical.

So how do you become socially eminent?

1. Reciprocity – People tend to return a favour, thus the pervasiveness of free samples in marketing

2. Commitment and Consistency – If people commit, orally or in writing, to an idea or goal, they are more likely to honor that commitment because of establishing that idea or goal as being congruent with their self-image.

3. Social Proof – People will do things that they see other people are doing. For example, in one experiment, one or more confederates would look up into the sky; bystanders would then look up into the sky to see what they were seeing.

4. Authority – People will tend to obey authority figures, even if they are asked to perform objectionable acts.

5. Liking – People are easily persuaded by other people that they like. Cialdini cites the marketing of Tupperware in what might now be called viral marketing.

6. Scarcity – Perceived scarcity will generate demand. For example, saying offers are available for a "limited time only" encourages sales.

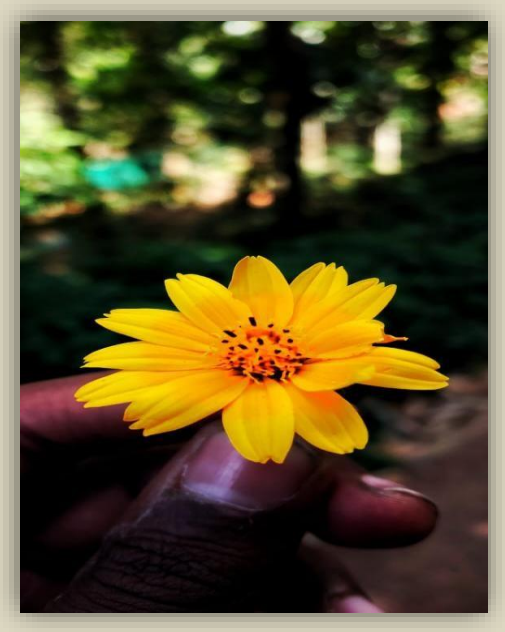
These 6 principles can also be used to help with building and maintaining your social eminence.

Especially relevant are Reciprocity, Commitment and Consistency, Social Proof and Scarcity when building your personal eminence.

By...
Mr. M. SURESHKUMAR AP/CSE

PHOTOGRAPHY

DHANUSHKUMAR.M IV CSE



BY JANANIPRIYA .R IV CSE

GOWTHAM II CSE

By
JULIA III CSE

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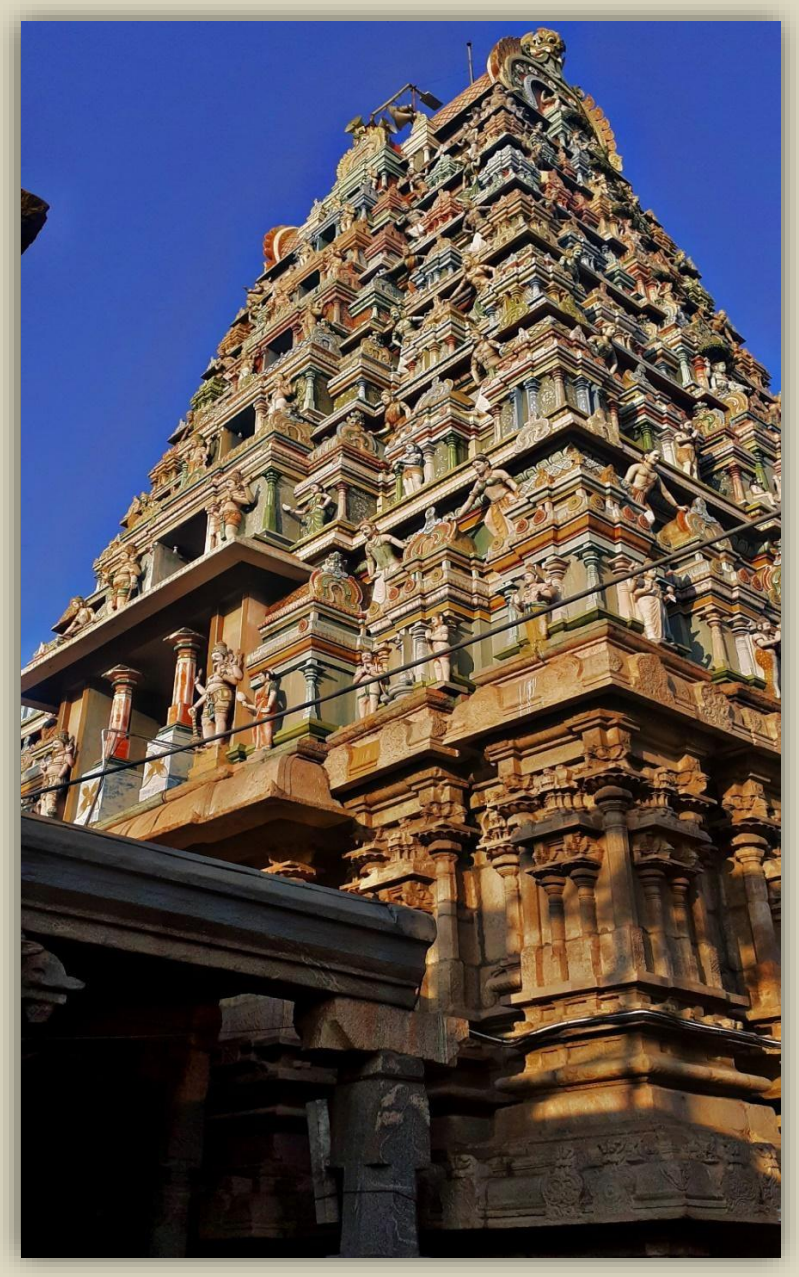

BY

D.SACHINKUMAR

II-CSE

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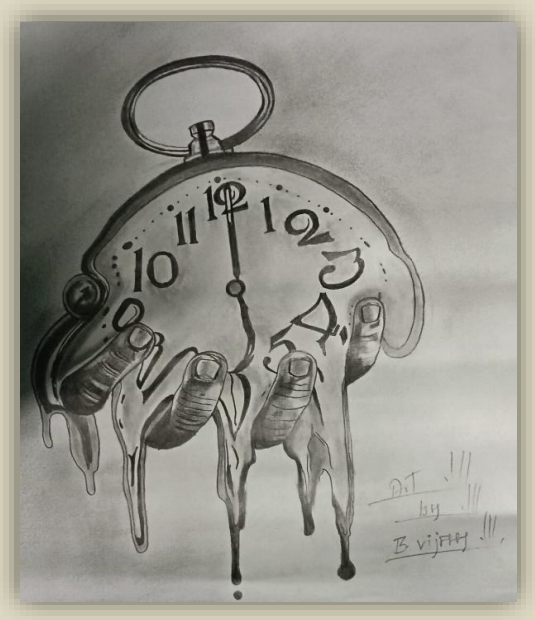
BY



VIJAY BHARATHI. B II CSE

BISWA SATHISH II CSE

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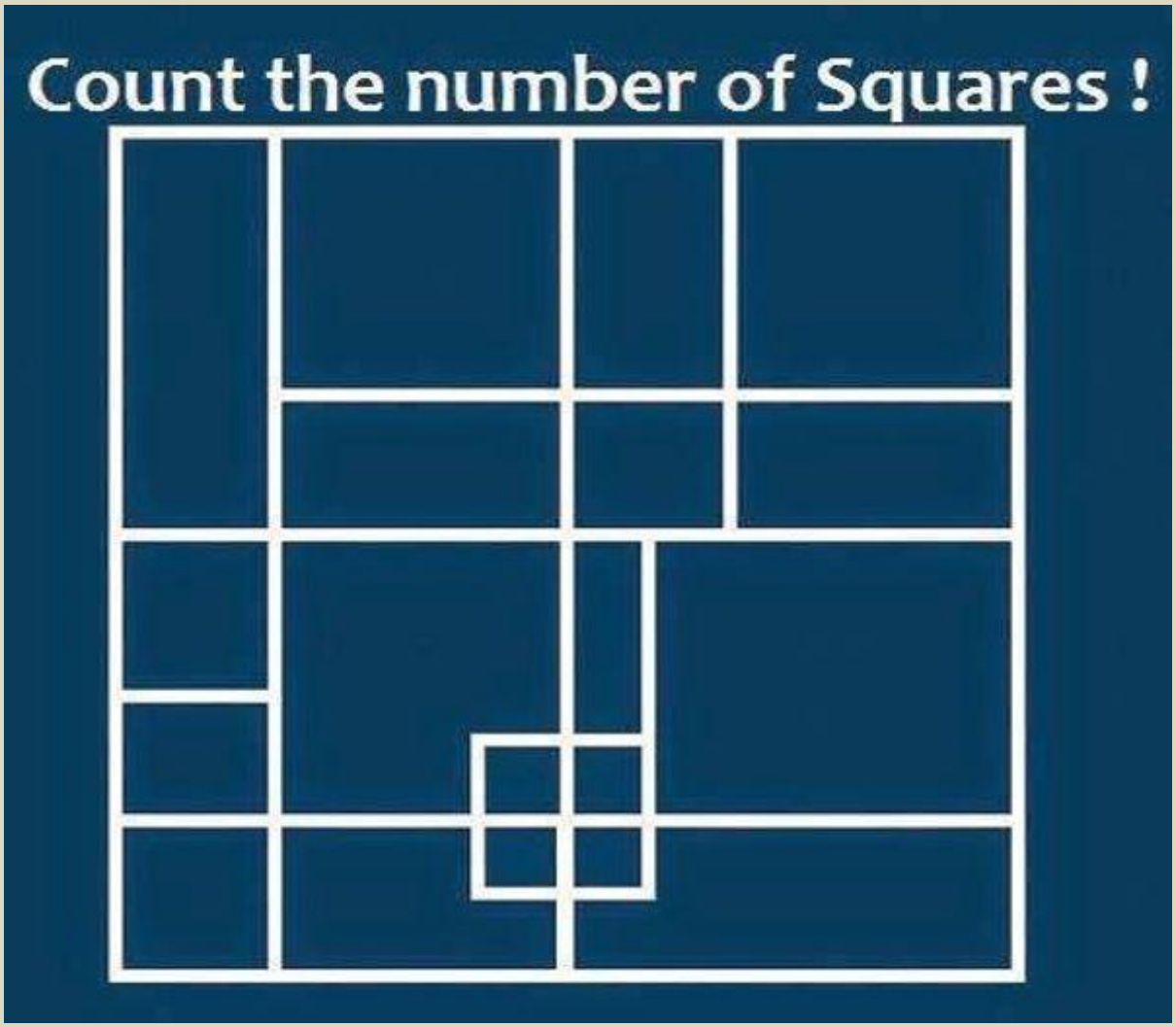
PUZZLE

THASLEEM.A II CSE



POEM

MONIKA. P II CSE

Art of learning

In life's picture, we learn every day,
Each lesson a story, in our own way.
With practice and time, we shape our mind,
Finding wisdom, treasures to find.

We make mistakes, but that's okay,
Learning's a journey, in every way.
From history's tales to science's dance,
We explore, in life's grand expanse.

Let's treasure each moment, as we learn,
In the art of learning, our hearts brightly burn.

ARTICLE

KALAIARASI II CSE

Block chain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network.

Top 9 Growing Block chain technology Trends for 2023:

- Central Bank Digital Currencies (CBDC)
- NFT Boom
- Metaverse
- Blockchain- as -a -service (BaaS)
- Blockchain to Enhance social Networking
- Blockchain in E-commerce
- Blockchain in FinTech
- Blockchain in healthcare

Real life used-cases

- Voting
- Fundraising
- Banking

BLOCK CHAIN QUIZ

1) The five elements of block chain are distribution, encryption, immutability, and tokenization and:

a) Transparency
b) Authorization
c) Efficiency
d) Decentralization

2) What can an IT leader use enterprise block chain for?

a) Streamline supply chains
b) Improve financial transactions
c) Provide identity management
d) All of the above

3) True or false: Smart contracts are legally binding contracts.

a) True
b) False

4) Who created Bitcoin?

a) Satoshi Nakamoto
b) Samsung
c) John MacAfee
d)China

5) A bitcoin address collision happens when 2 different payments are made at the same time to the same bitcoin address

a) True
b) False

6) How many new Bitcoins are created every day?

a) 2200 Except of leap year
b) 3600
c) 7200
d) 5000

7) First step of Block chain project implementation is?

a) Requirement identification
b) Feasible study on the security
c) Controlling and monitoring the project
d) Screen idea consideration

8) Which of the following is popularly used for storing bitcoins?

a) Pocket
b) Wallet
c) Box
d) Stack

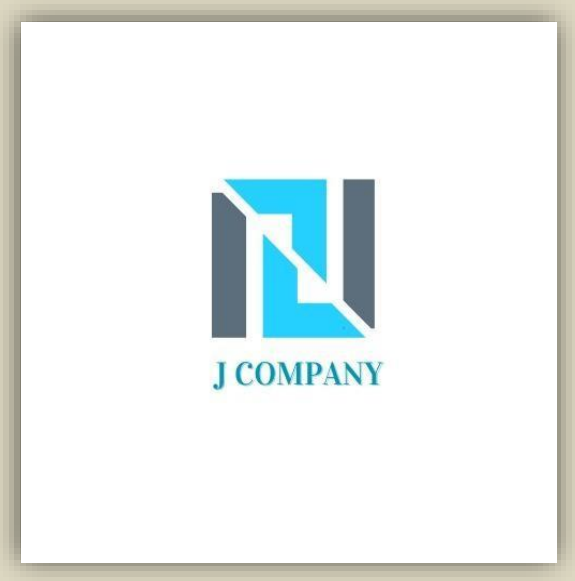
9) Block chain has ____versions.

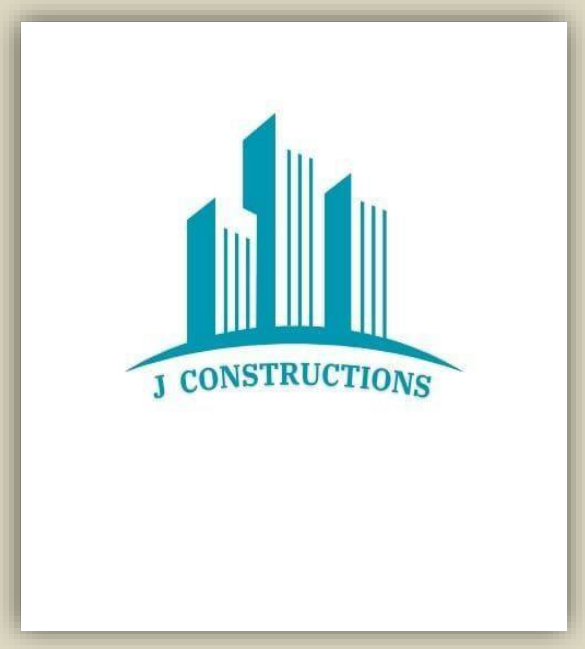
a)2
b)3
c)4
d)5

10) Bitcoin is based on _____ block chain.

a) Private
b) Public
c) Public Permissioned
d) Permissioned

LOGO DESIGN
JULIA III CSE





BROUCHER DESIGNS

JULIA III CSE

ABIGAIL J III CSE

JUST SAYING

What if it works??

Each day we feel so many thoughts gushing through our mind. In which we would all think of something which we feel like trying but there would be so many doubts such as, 'what if it doesn't work?'. Instead start thinking what if it works, an optimistic one. Everything in life is a trial-and-error process, it's not about what you gain it's about what you learn. A clear mind with a thought which doesn't allow you to sleep unless you try. What more do you want than the urge from within? Why to always be a spectator? Move ahead towards the field and work according to the voices of your mind. Even a little progress brings great joy. If it works cheers to your progress, celebrate your deed. If not, learn the best lesson which life wants you to learn.

Self-love:

Hey!!Hello...I hope it has been a great day. As it is the beginning I would like to prioritize self-love. Oh dear! "What is love if you don't love yourself??" This question is a line from a song in the movie Rio 2. Now I really ask it towards each one of you. Do you really love yourself? I've come across many people who don't even know the value of themselves. They keep grudging at themselves instead. Are you one among them? Then get along with me to find the true value of yourself. Firstly, know to adore yourself because you have been created for a purpose. Beautiful is the creations of the Creator. You and I are one among the creations who are very unique. Commence each day with a word of thanks for being a part in the journey of this universe. If you aren't a person who loves yourself then turn away from it and start to love yourself, then you will start to know the value of yourself. You will come to know that you are a gem within a geode. To love yourself your appearances don't matter; it's the inward one that matters more. You may ask, "What is the purpose of loving myself?" Here comes the answer. When you love yourself, you will never feel for not being loved by others. The most important truth is that when you start loving yourself then the people around you will start liking you naturally. This is the power of self-love. Not only this, it will teach you to enjoy your own vibe. Words can't explain the miracle of self-love.

KAVITHAIKAL

SURENDRA KUMAR M III CSE

நட்பின் பக்கம்

என் வாழ்க்கை என்னும் நூலில்! ,

அற்புதமான பக்ைமாை இருப்பவல் நீ!

என் பக்ைம் இருப்பவள் நீ!

என் வாழ்வின் சிறந்த பக்ைம் நீ!

உன் வாழ்வு முழுவதும் உன் பக்ைமாை இருப்பபனா என்று
ததரியவில்கல?

ஆனால்,

வாழ் நாள் முழுவதும் உனது பக்ைம், எனது மனதின் பக்ைமாை

இருக்கும்! உன் வாழ்வின் பக்ைங்ைளில் நான், ஒரு துண்டு

பக்ைமாை இருப்பபனா? என் உயிர் பதாழிபய!

என்றும் உன் நிகனவின் பக்ைங்ைகள என் மனதின் பக்ைமாை கவத்துக்
தைாண்டு இருக்கும், உன் உயிர் பதாழன்!

Moss-side

PRINCY J IV CSE

A Bold, Caring,

Darling with Elegance with some Flaws and with your

Grace, you my Highness..!

I will be your Jockey Knight, with Love. My Naughty Daughter.

You is a Over whelmed form of Pure love who is able to Quench the soul and you is a Real

Super being in the Tremendous Universe with a Very good Heart.

Which should Experience the true Happiness in this world.

You will certainly do My Daughter.

ANNUAL DAY

PONGAL

SYMPOSIUM

SRIZEAC

Frame it
Post it
Love it

OR A TABLET.
• ANDROID APPLICATIONS ARE ORGANIZED AS
OMPONENT CORRESPONDS TO AN APPLICATIO
THAT CAN BE EXECUTED INDEPENDENTLY OF TH

INTERCOLLAGE EVENTS

ASSOCIATION OF ZEAC

EXCURSION

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