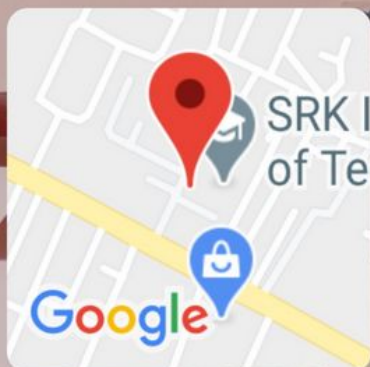
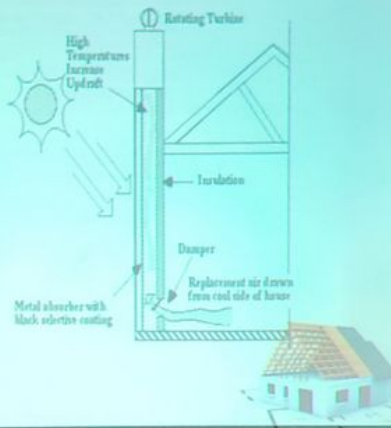


STACK VENTILATION

- Stack ventilation uses temperature differences to move air
- Thermal chimney effects can be integrated into the house with open stairwells and atria



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Thiessen polygon method

- › More accurate than AAM.

Procedure:

- › Joint the rain gauge stations by straight lines
- › Construct the perpendicular bisectors of each of these lines form polygons.
- › Find the area of these polygons



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Accessing Structures

- To refer to fields in structure, we need to refer both structure and the field.
- C uses a hierarchical naming convention, first use structure identifier and then the field identifier, both are separated with dot.
 - aStudent.id
 - aStudent.name
 - aStudent.grade

April 11, 2021



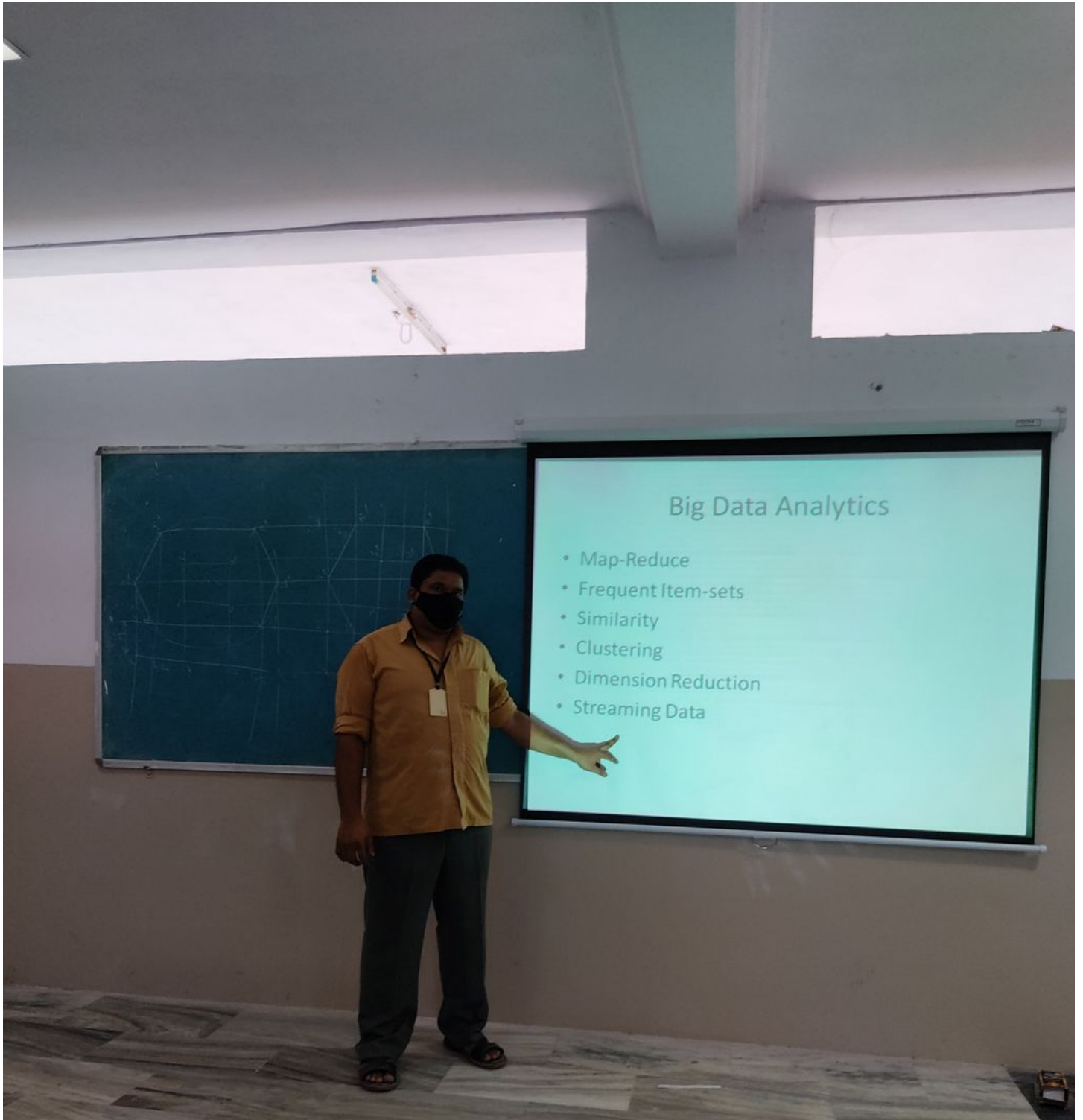
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Big Data Analytics

- Map-Reduce
- Frequent Item-sets
- Similarity
- Clustering
- Dimension Reduction
- Streaming Data



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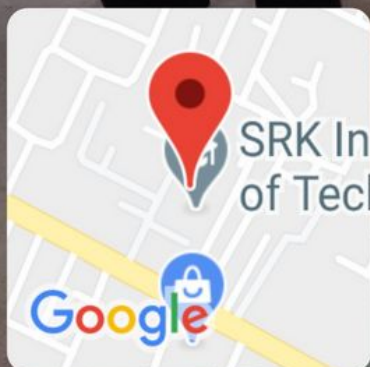
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Course Structure

1. Class Participation (15%)
2. Paper Synopsis (10%)
3. Paper Presentation (25%)
4. Mid-term Project Report (25%)
5. Final Project Report (25%)



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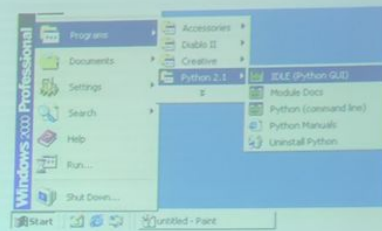
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Let's use IDLE in this course

- Graphical User Interface (GUI)
- Interactive Development Environment (IDE) for Python
- Useful under Windows and Unix
- Not required; use another editor if you want to
- Written in Python, using Tk
- Named for Eric Idle, member of Monty Python



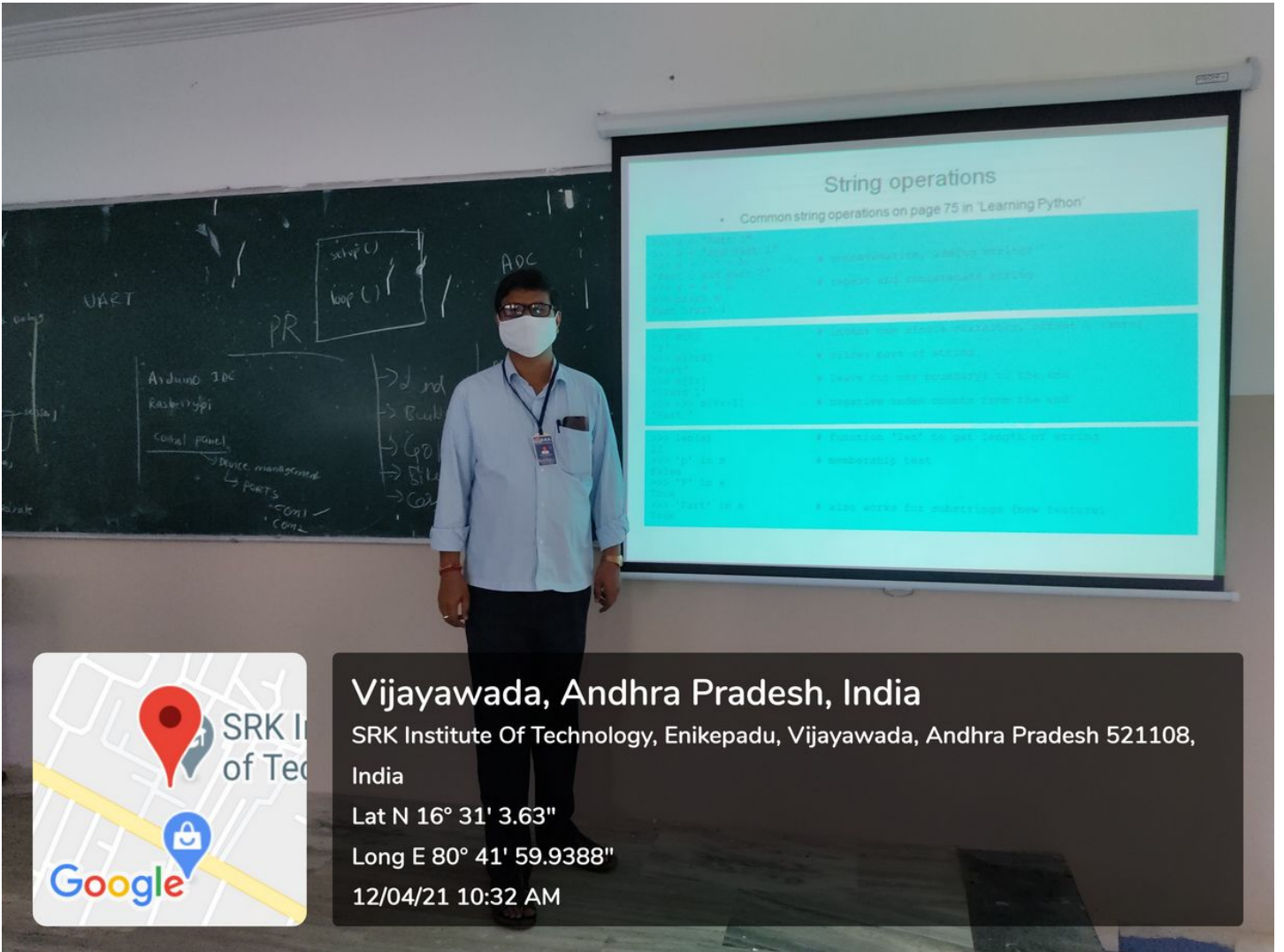
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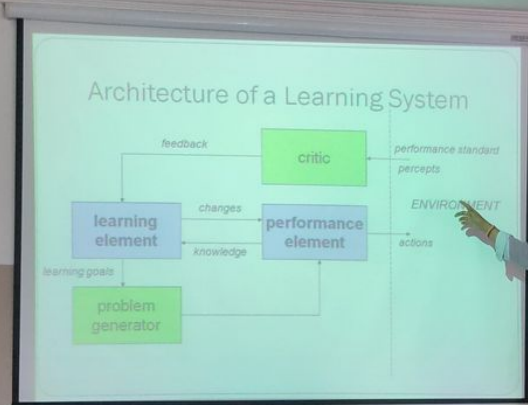
String operations

Common string operations on page 75 in 'Learning Python'

- len()
- max()
- min()
- strip()
- lstrip()
- rstrip()
- replace()
- split()
- splitlines()
- join()
- format()



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Function arguments: explicit type checking

- Use the 'assert' statement
- Checks that its Boolean expression is True, else bombs
- Can be used for sanity checks anywhere in code
- Optional explanatory message (or data)

```
"fixed_args.py"  
def fixed_args(a, b):  
    assert type(a) == type(1), "'a' must be an integer"  
    return "a=%s, b=%s, c=%s" % (a, b, c)  
print fixed_args('a', 1.2, [2, 3])
```

```
Traceback (most recent call last):  
File "C:\Python\test\test15.py", line 4, in <module>  
    print fixed_args('a', 1.2, [2, 3])  
File "C:\Python\test\test15.py", line 5, in fixed_args  
    assert type(a) == type(1), "'a' must be an integer"  
AssertionError: 'a' must be an integer
```



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Built-in types and their Boolean interpretations

| | | |
|-------|----------------|-------|
| int | 0 | False |
| | -1 | True |
| | 124 | True |
| float | 0.0 | False |
| str | "" | False |
| | "False" | True |
| dict | {} | False |
| | {"key": "val"} | True |
| list | [] | False |
| | [False] | True |

- All built-in types can be used directly in 'if' statements
- Zero-valued numbers are False
- All other numbers are True
- Empty containers (str, list, dict) are False
- All other container values are True
- Use function 'bool' to get explicit value



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LECTURE HALL

Var = 789 P1r2 = 1000 P1r = 2000
1000 2000 3000

o/p:
Var = 789
P1r2 = 1000
P1r = 789

Built-in types and their Boolean interpretations

| | | |
|-------|----------------|-------|
| int | 0 | False |
| | -1 | True |
| | 124 | True |
| float | 0.0 | False |
| str | "" | False |
| | "False" | True |
| dict | {} | False |
| | {"key": "val"} | True |
| list | [] | False |
| | [False] | True |

- All built-in types can be used directly in 'if' statements
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Features of Python

- A script language
- Interpreted
 - No compile/link stage
 - Write and run
 - Slow compared to C, C++
- Elegant design; "tight"
- Designed for
 - Quick-and-dirty scripts
 - Reusable modules
 - Very large systems
- Object-oriented
 - Very well-designed
 - But you don't have to use it
- Useful error messages
- Automatic memory handling
- Independent of operating system
 - Works on both Unix and Windows
 - Even file system code can be made os-independent
- Large library of standard modules
- Large number of third-party modules
- Integration with external C code
- Well documented



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752 In Context

- Prior courses
 - 352 – gates up to multiplexors and adders
 - 354 – high level language down to machine language interface or instruction set architecture (ISA)
 - 552 – implement logic that provides ISA interface
 - CS 537 – provides OS background (co-req. OK)
- This course – 752 – covers advanced techniques
 - Modern processors that exploit ILP
 - Modern memory systems that exploit MLP
- Additional courses
 - ECE 757 covers parallel and multiprocessing
 - ECE 755 covers VLSI design.

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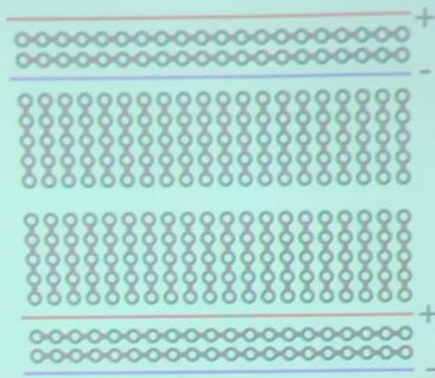
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What is a breadboard?

What are they good for?

Creatings, organizing, and prototyping a circuit.

Literally started out as a bread board with nails.



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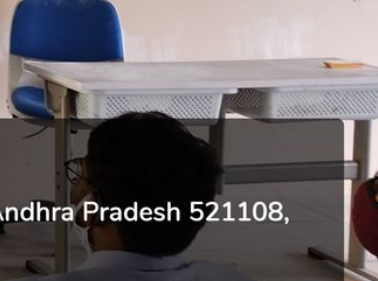
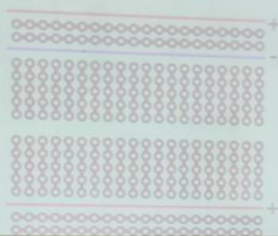
Long E 80° 42' 0.5976"

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What is a breadboard?

What are they good for?
Creatings, organizing, and prototyping a circuit.

Literally started out as a bread board with nails.



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1. Most characters must be alphabetic characters or underlines.
2. Must contain only of alphabetic characters, digits, or underlines.
3. First 3 characters of an identifier are significant.
4. Cannot start with a digit.
Caption: 2.1. Rules for Identifiers

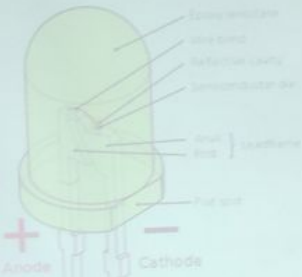
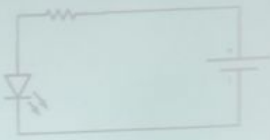


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What are LEDs?



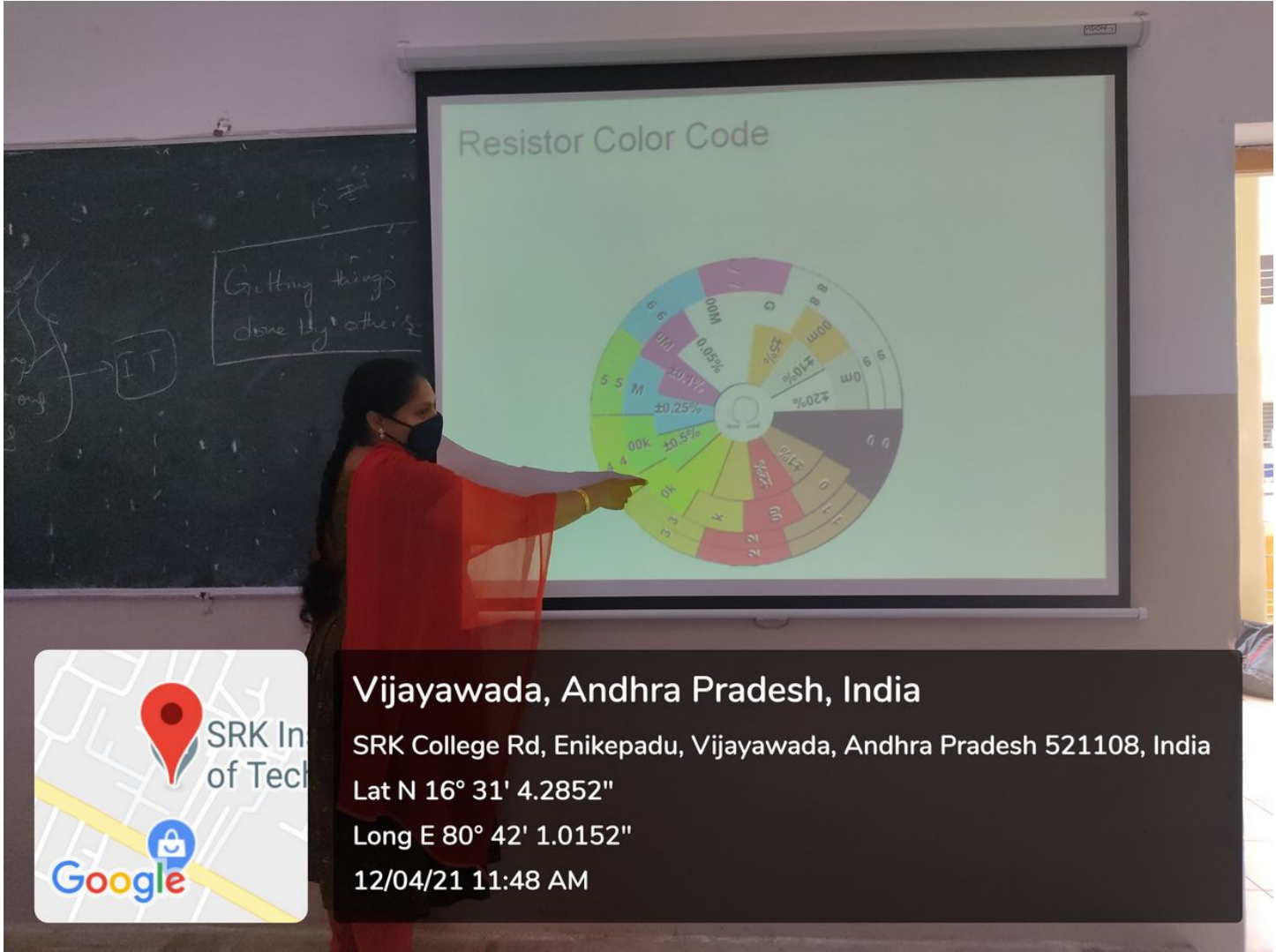
Light Emitting Diodes
Diode Symbol + Arrows for light
Points to ground



Cost of Energy (Coal)
Production Output



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Resistor Color Code



Getting things done by others

IT



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How Tele-operators* Market CDMA

Coverage



For Coverage, CDMA saves operators money from deploying the 40% more cell sites that are required by GSM

Capacity



CDMA's capacity supports at least 40% more users per site than GSM when compared to GSM

Cost



A carrier that deploys CDMA instead of GSM will have a lower cost/line

Clarity



CDMA with PureVoice provides superior clarity

Choice



CDMA offers the choice of applications: voice, video and packet data, FAX, and SMS

Customer satisfaction



The Most widely recognized for attracting performance index that is based on CDMA

© 2001 Ericsson, ICT Communication Solutions

*From Strategy 1 narrowband CDMA (CDMAOne®) marketing (2001)

3



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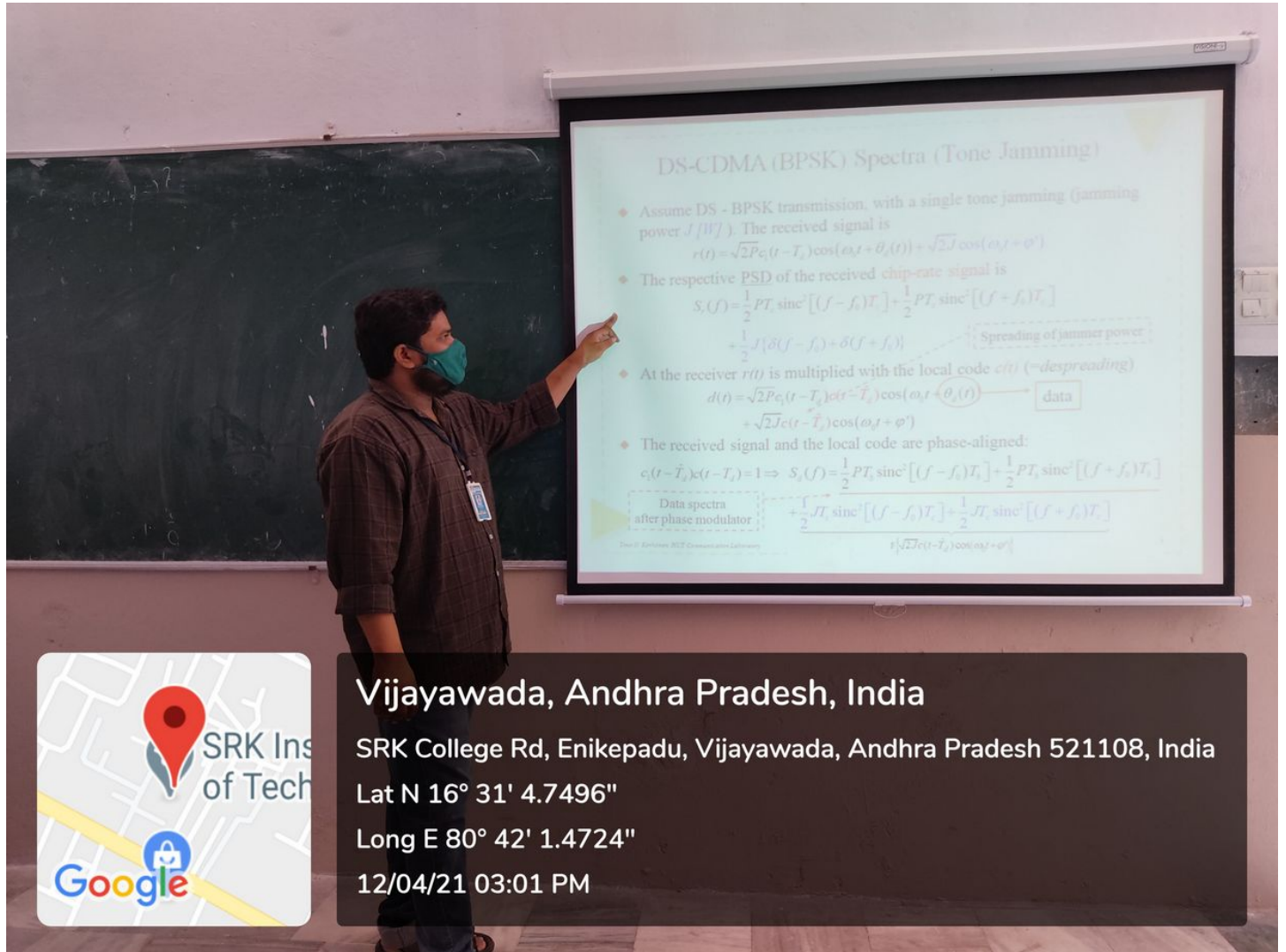
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DS-CDMA (BPSK) Spectra (Tone Jamming)

- Assume DS - BPSK transmission, with a single tone jamming (jamming power J [W]). The received signal is

$$r(t) = \sqrt{2P}c_i(t - T_c)\cos(\omega_c t + \theta_c(t)) + \sqrt{2J}\cos(\omega_c t + \varphi)$$

- The respective PSD of the received chip-rate signal is

$$S_r(f) = \frac{1}{2}PT_c \text{sinc}^2[(f - f_c)T_c] + \frac{1}{2}PT_c \text{sinc}^2[(f + f_c)T_c] + \frac{1}{2}J[\delta(f - f_c) + \delta(f + f_c)]$$

Spreading of jammer power

- At the receiver $r(t)$ is multiplied with the local code $c(t)$ (=despreading)

$$d(t) = \sqrt{2P}c_i(t - T_c)c(t - T_c)\cos(\omega_c t + \theta_c(t)) + \sqrt{2J}c(t - T_c)\cos(\omega_c t + \varphi) \rightarrow \text{data}$$

- The received signal and the local code are phase-aligned:

$$c_i(t - T_c)c(t - T_c) = 1 \Rightarrow S_r(f) = \frac{1}{2}PT_c \text{sinc}^2[(f - f_c)T_c] + \frac{1}{2}PT_c \text{sinc}^2[(f + f_c)T_c]$$

Data spectra after phase modulator

$$+ \frac{1}{2}JT_c \text{sinc}^2[(f - f_c)T_c] + \frac{1}{2}JT_c \text{sinc}^2[(f + f_c)T_c]$$

$$+ \sqrt{2J}c(t - T_c)\cos(\omega_c t + \varphi)$$

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Characteristics of Spread Spectrum

- Bandwidth of the transmitted signal W is much greater than the original message bandwidth (or the signaling rate R)
- Transmission bandwidth is independent of the message. Applied code is known both to the transmitter and receiver

Narrow band signal
(data)

Wideband signal
(transmitted SS signal)

- Interference and noise immunity of SS systems is larger, the larger the processing gain $L_p = W/R = T_c/T$
- Multiple SS systems can co-exist in the same band (=CDMA) increased user independence (decreased interference) for (1) higher processing gain and higher (2) code orthogonality
- Spreading sequence can be very long \rightarrow enables low transmitted PSD \rightarrow low probability of interception (especially in military communications)



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SATELLITE LAUNCHES

- UNLIKE FULL SIZED SPACECRAFT, PROXSAT HAVE THE ABILITY TO BE DELIVERED INTO SPACE AS CARGO AND THEN DEPLOYED BY THE INTERNATIONAL SPACE STATION, THIS PRESENTS AN ALTERNATIVE METHOD OF ACHIEVING ORBIT A PART FROM LAUNCH AND DEPLOYMENT OF A LAUNCH VEHICLE
- PSLV-C37 SUCCESSFULLY LAUNCHES 104 SATELLITES IN A SINGLE FLY. IN THIS LAUNCH 103 SATELLITES ARE NAND SATELLITES IN WHICH TWO OF THEM ARE INDIAN SATELLITES



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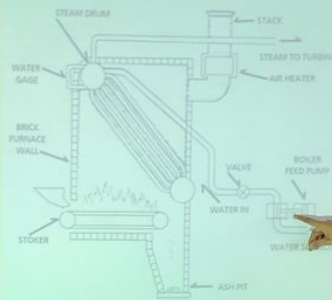
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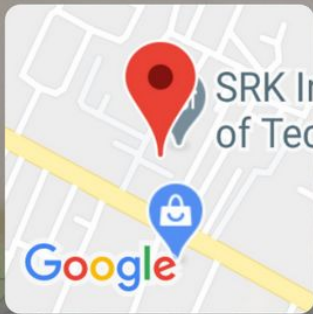
COMPONENTS OF BOILERS

- Feed Pump
- Boiler shell/Steam drum – steel plates – rolled and riveted
- Combustion chamber – where fuel burns
- Concrete/fire bricks
- Grate/Stoker – cast iron rods – fuel placed on it and burnt
- Furnace – fire box
- Ash pit
- Heating surface – water pipes



WORK BREAKDOWN STRUCTURE

- Planning
- Scheduling
- Sub-structure
- Making → EXCHANGE → FORMING
- UNDER STRUCTURE



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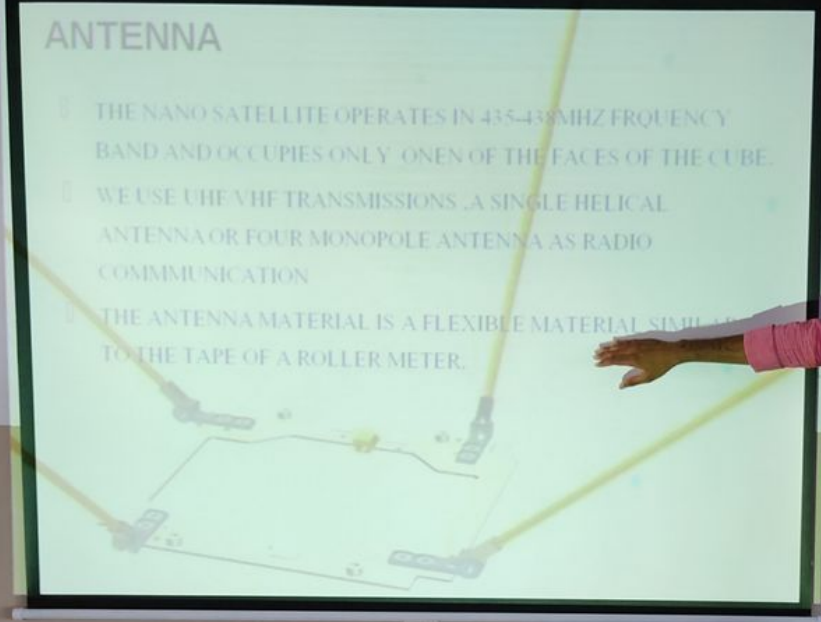
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ANTENNA

- ❑ THE NANO SATELLITE OPERATES IN 435-438 MHZ FREQUENCY BAND AND OCCUPIES ONLY ONE OF THE FACES OF THE CUBE.
- ❑ WE USE UHF/VHF TRANSMISSIONS, A SINGLE HELICAL ANTENNA OR FOUR MONOPOLE ANTENNA AS RADIO COMMUNICATION.
- ❑ THE ANTENNA MATERIAL IS A FLEXIBLE MATERIAL SIMILAR TO THE TAPE OF A ROLLER METER.



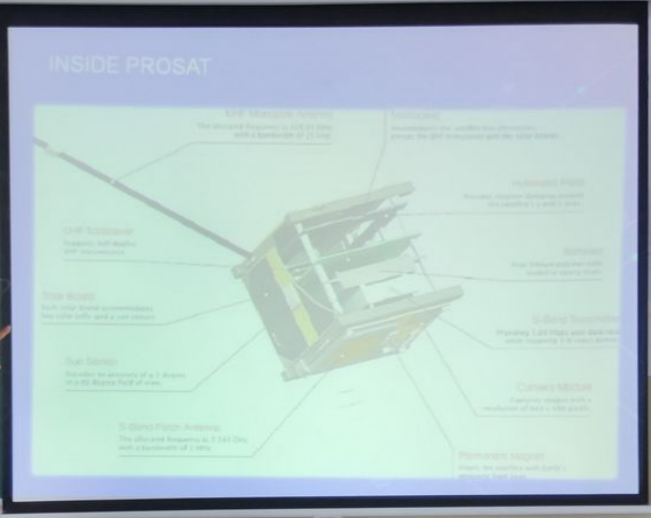
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THEORETICAL OVERVIEW

CAMP FIRE

For a long time, camp fire was the only one utilization method, which supplies heat for heating and for cooking. Heat demands were supplied with ovens and stoves till the mid of 18th century. An energy transfer medium is needed to deliver generated heat from the fire place to heat demand. Boilers were made for the first time only for steam generation.



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ADVANTAGES

- Initial cost is less
- Installation is easy and quick
- Any type of fuel can be used
- Can be moved and set up quickly

DISADVANTAGES

- Steam rising capacity less due to vertical design
- Poor efficiency with small boilers
- It's difficult to clean inside
- Large flat surface is needed



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AQUASTATS

Senses temperature of water and control's burner on the call of thermostat



CAUSES OF FAILURE:

- Temperature set too low or too high
- Water pressure is too high
- Sensors not working properly

REMEDY:

- Adjust temperature
- Relief valve operation
- Replace the sensors



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Question: How many of you have dealt with the OS (enhanced) interface before?

One more layer between a typical user program and the OS interface... the programming environment (compiler → run time library)

User programs
programming environment
Operating system interface
Operating system
Hardware interface

Mathematical formulas and diagrams on a green chalkboard.


stitute
nology

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$$V = \frac{1}{2E} \left[(\sigma_1^2 + \sigma_2^2 + \sigma_3^2) - 2\mu(\sigma_1\sigma_2 + \sigma_2\sigma_3 + \sigma_3\sigma_1) \right]$$



WATER FEED PUMP:
Feeds the water into the boiler



Feed pump

CAUSES OF FAILURE:
Electrical corrosion

REMEDY:
Diamond coating mechanical seals are used



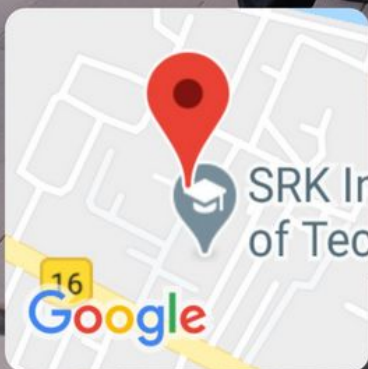
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Profit Maximization :

- Profit maximization is a term which denotes the maximum profit to be earned by an organization in a given time period. The profit maximization goal implies that the investment, financing and dividend policy decision of the enterprise should be oriented to profit maximization.
- The term profit can be used in two senses first as the owner oriented concept, second as the operational concept. Profit as the owner concept refers to the amount of net profit which goes into form of dividend to the share holders. Profit as the operational concept means profitability. Which is an indicator of economic efficiency of the enterprise.

disciplines

| | Key performance metric |
|-------------|--|
| Inventory | ① Inventory Turns ② Production cost |
| Production | ③ Production capacity |
| Product | ④ Market share ⑤ Order fill rate |
| Customer | ⑥ Customer satisfaction ⑦ Value added |
| Time | ⑧ Response Time |
| Information | ⑨ Real Time communication ⑩ Business Intelligence |



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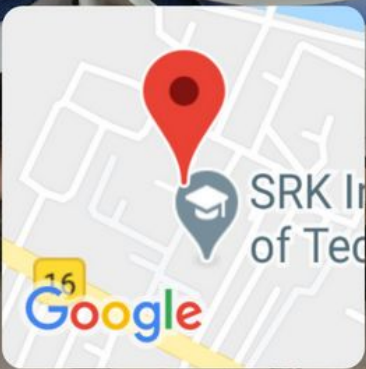
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Aims of Finance Function

The primary aim of Finance function is to arrange as much as funds for the business as are required from time to time. This function has the following aims.

- Acquiring sufficient funds
- Proper Utilization of Funds
- Increasing Profitability
- Maximizing firms value



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Long E 80° 42' 0.1188"
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WHY PROSAT ?

- PROSAT WHICH IS USED TO PROVIDE ACCESS TO SPACE FOR SMALL PAYLOAD .HUMAN SURVELLIENCE DETECTION AS WELL AS SUSPICIOUS ACTIONS PICTURE CAPTURING FROM SPACE AND SENDING THEM TO THE SATELLITE CENTER AND POLICE PATROLLING CENTRE.
- NOW-A-DAYS, THE NANO SATELLITE TO REDUCE COST AND DEVELOPMENT TIME.INCREASE ACCESBILITY TO SPACE AND SUSTAIN FREQUENT LAUNCHES.



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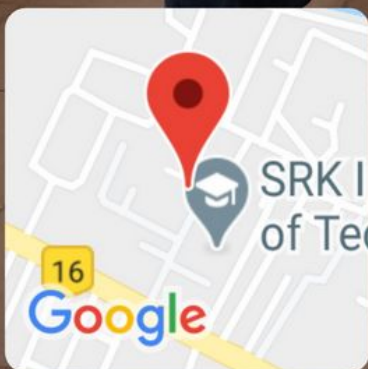
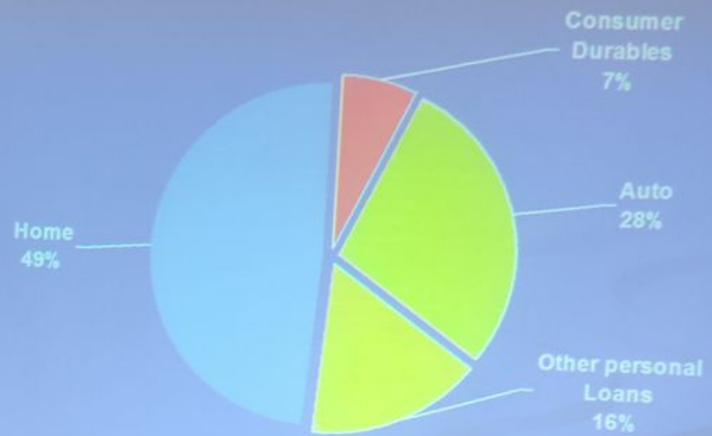
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Lat N 16° 31' 7.4136"

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Market Share: Retail Loan - 2005



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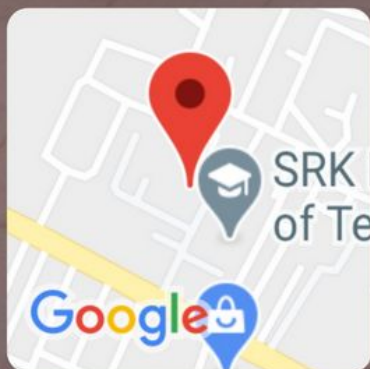
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Long E 80° 41' 59.8416"

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Initializing Enumerated Constants

- The compiler automatically assigns values to enumerated types starting with 0, we can override by our own values.
- enum month {Jan=1, Feb, Mar, Apr, Mar, Jun, Jul, Aug, Sep, Oct, Nov, Dec};



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Long E 80° 41' 59.3304"

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RETENTION REALITY: WHY THEY JOIN

What It Takes to Build Retention

Select the Right People

- Integrity
- Substance Above
- Reliability
- Work Ethic
- Job Match

Accelerate Employee Productivity

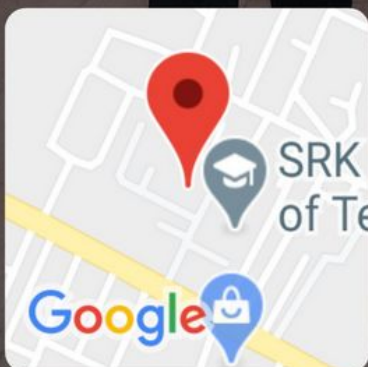
- Refining Top Performers
- Training Needs
- Coaching Employees
- Engaged & Competent Workforce

Make Managers More Effective

- Approving Management Techniques
- Improving Communication Skills
- Developing Leadership Capabilities

High Performance Workforce Solution

Source: www.danfarnell.com



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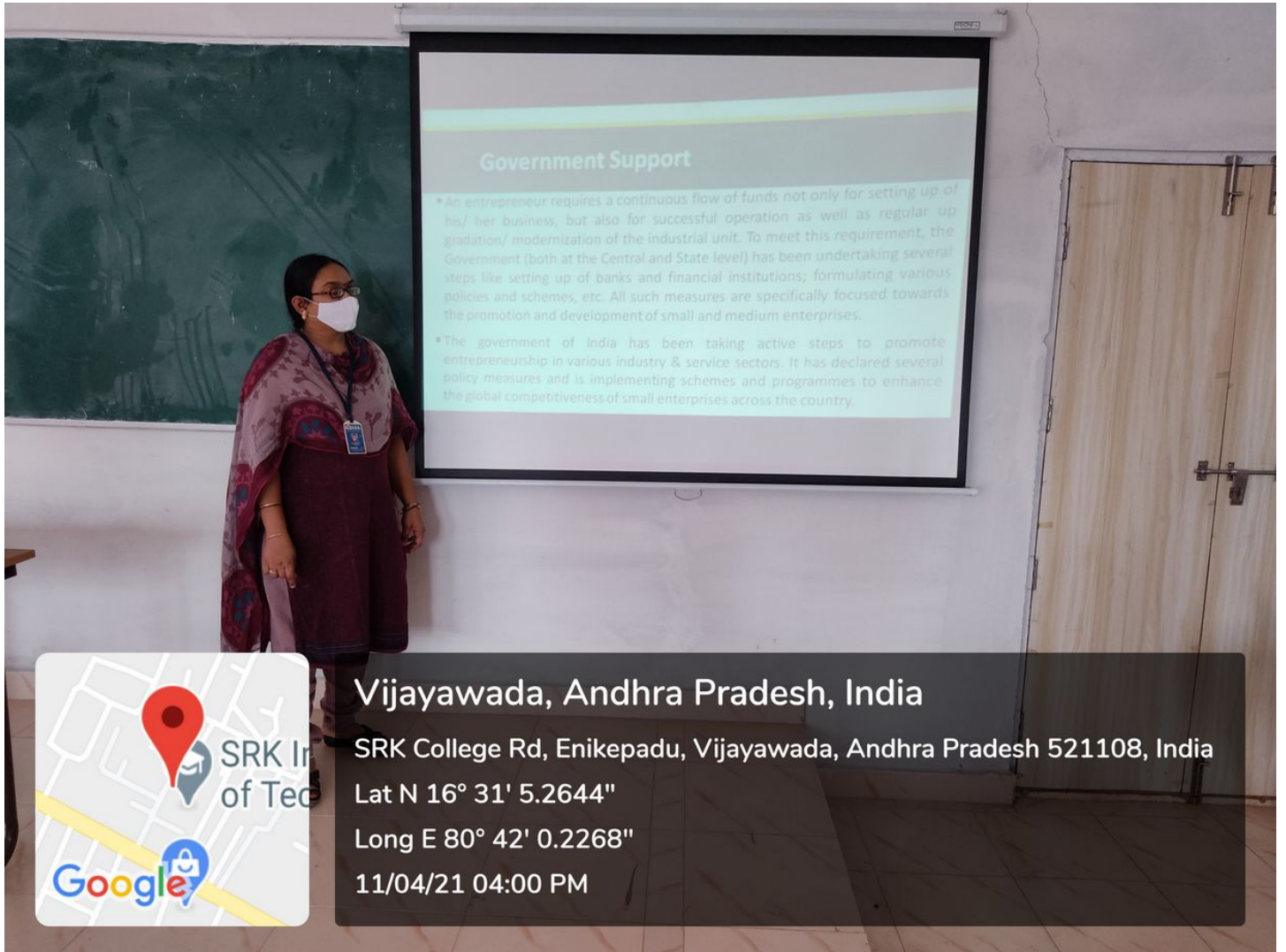
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Long E 80° 41' 59.0064"

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Government Support

- An entrepreneur requires a continuous flow of funds not only for setting up of his/ her business, but also for successful operation as well as regular up gradation/ modernization of the industrial unit. To meet this requirement, the Government (both at the Central and State level) has been undertaking several steps like setting up of banks and financial institutions; formulating various policies and schemes, etc. All such measures are specifically focused towards the promotion and development of small and medium enterprises.
- The government of India has been taking active steps to promote entrepreneurship in various industry & service sectors. It has declared several policy measures and is implementing schemes and programmes to enhance the global competitiveness of small enterprises across the country.

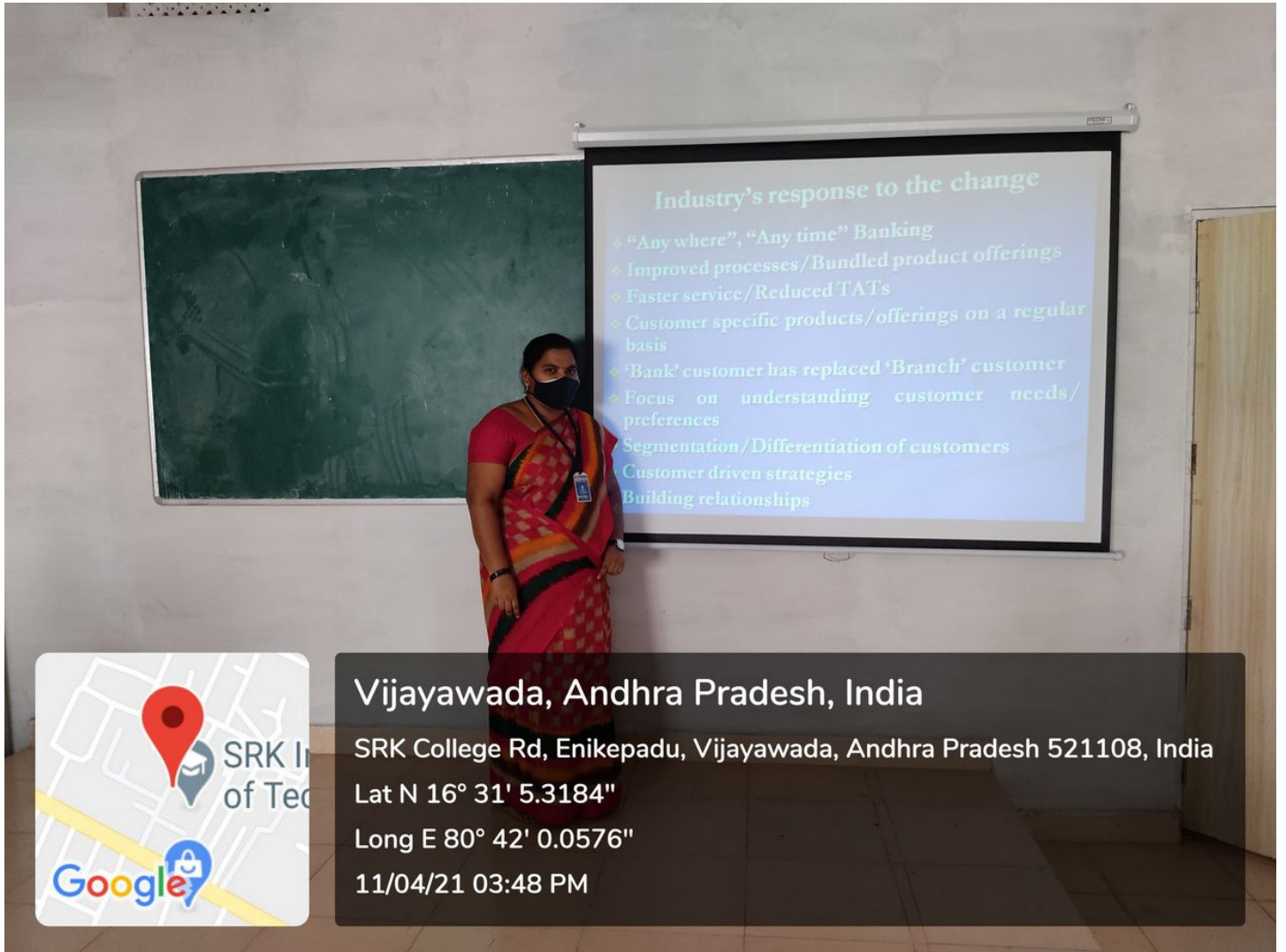
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Long E 80° 42' 0.2268"

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Industry's response to the change

- ❖ "Any where", "Any time" Banking
- ❖ Improved processes/Bundled product offerings
- ❖ Faster service/Reduced TATs
- ❖ Customer specific products/offerings on a regular basis
- ❖ "Bank" customer has replaced "Branch" customer
- ❖ Focus on understanding customer needs/preferences
- ❖ Segmentation/Differentiation of customers
- ❖ Customer driven strategies
- ❖ Building relationships

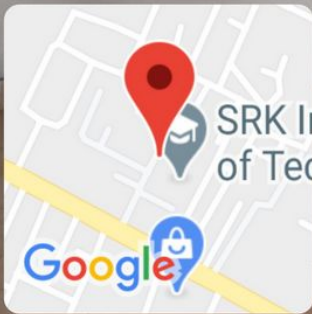
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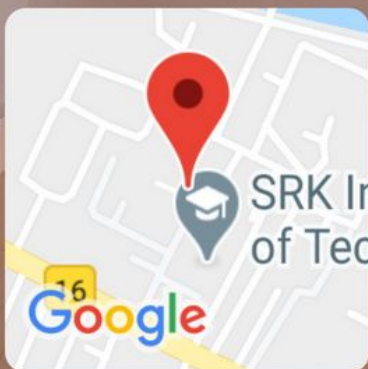
Long E 80° 42' 0.0576"

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KEEPING IS CHEAPER THAN REPLACING

- Direct Costs of Replacement
- Paperwork/Time Exit Interview
- Recruiting Replacement
- Interview/Select New Employee
- On boarding New Employee
- Training New Employee
- Depending on the complexity of the job, this process can take at least 3-6 months in most cases.



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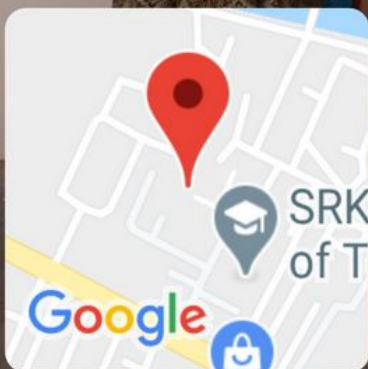
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Problems with E-Mail.



- Communicates emotions poorly
- Reduces politeness and respect
- Inefficient for ambiguous, complex, novel situations
- Increases information overload

97



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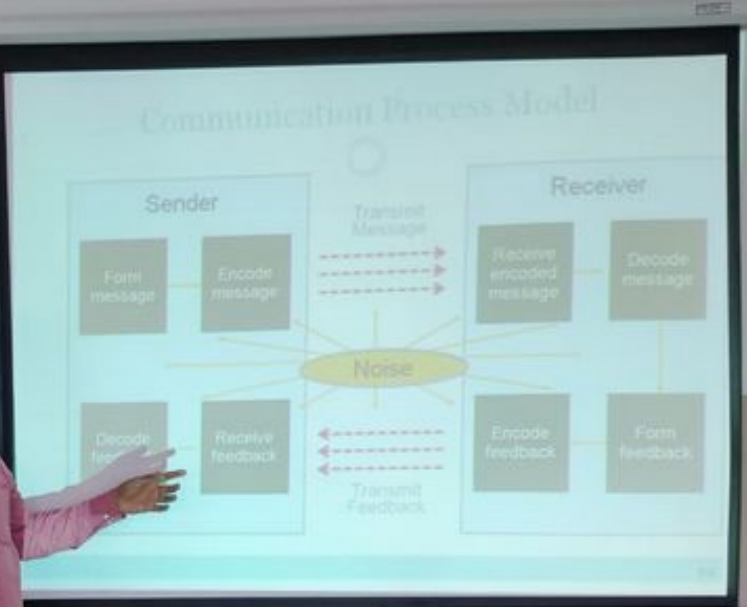
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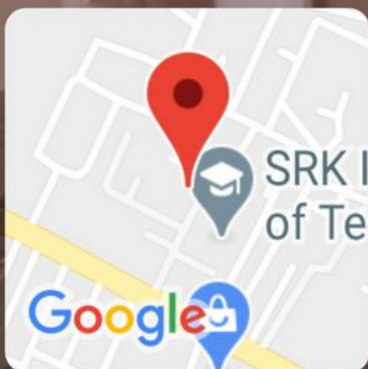


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SURVEY

- Developed from a survey of HR practitioners in 316 organizations, it finds that 93% have implemented retention initiatives over the past year, yet nearly half (47%) still admit that they have a problem retaining staff and two-thirds (65%) say they want to reduce their employee turnover.
- According to the survey, 44% of organizations have a staff turnover rate higher than 15% per year, with one in ten exceeding 30% per year. In organizations with over 500 employees, more than a third (36%) have a turnover rate exceeding 20%. 81% of organizations believe staff turnover has a detrimental impact on their effectiveness.

Source: www.clickpress.com



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Lat N 16° 31' 6.3768"

Long E 80° 41' 59.604"

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Policies and Incentives

- The Ministry of Micro, Small and Medium Enterprises is the nodal Ministry for formulation of policies, programmes and schemes, their implementation and related co-ordination, for the promotion and development of small scale industries in India. The role of the Ministry is to assist the States in their efforts for the growth of the small scale sector, by enhancing their competitiveness in an increasingly liberalized economy. It is assisted by an attached office and two public sector enterprise, namely -
 - Micro, Small and Medium Enterprises Development Organization (MSME-DO)
 - National Small Industries Corporation Ltd (NSIC)
 - Khadi and Village Industries Commission (KVIC)
 - Coir Board



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Lat N 16° 31' 8.1804"

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Communication Defined



- The process by which information is transmitted and understood between two or more people
- Effective communication
 - Transmitting intended meaning (not just symbols)



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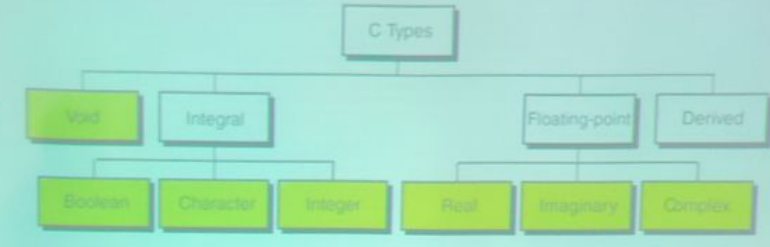
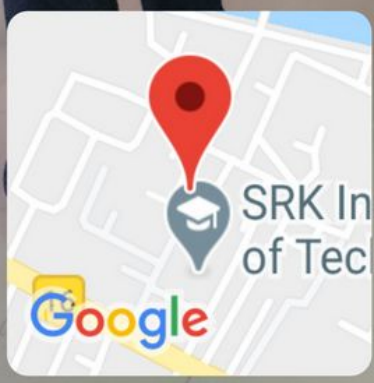


FIGURE 2-6 Nested Block Comments Are Invalid

Computer Science: A Structured Programming Approach Using C

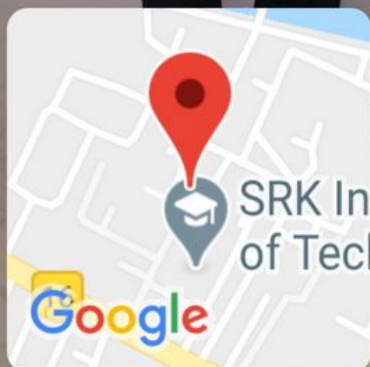


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Lat N 16° 31' 7.8024"
Long E 80° 42' 0.81"
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Policies and Incentives

▪ The Ministry of Micro, Small and Medium Enterprises is the nodal Ministry for formulation of policies, programmes and schemes, their implementation and related co-ordination, for the promotion and development of small scale industries in India. The role of the Ministry is to assist the States in their efforts for the growth of the small scale sector, by enhancing their competitiveness in an increasingly liberalized economy. It is assisted by an attached office and two public sector enterprise, namely:-

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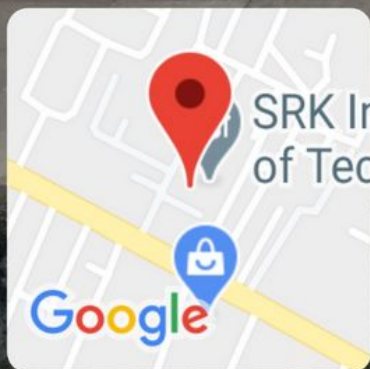
Long E 80° 42' 0.8892"

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Machine Learning

Ingredients of Machine Learning:

- Tasks
- Models
- Features



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Lat N 16° 31' 3.828"

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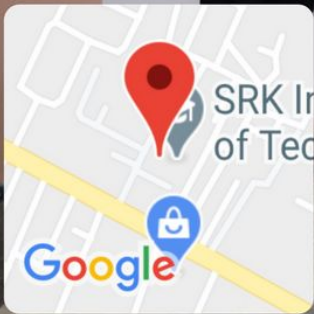
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Accessing Structures

- To refer to fields in structure, we need to refer both structure and the field.
- C uses a hierarchical naming convention, first use structure identifier and then the field identifier, both are separated with dot.
 - aStudent.id
 - aStudent.name
 - aStudent.gradepoint

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April 15, 2021



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Lat N 16° 31' 4.2132"

Long E 80° 42' 0.252"

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Course Introduction

Prerequisites (or consent from the instructor):

- Fundamentals of power electronics and power systems.
- Fundamentals of power electronics means basic knowledge of control systems, circuits and electronic devices.
- Familiarity with at least one computer simulation software and basic modeling approaches.
- Knowledge on how to browse through professional publications.

Course Description:

- Graduate level course
- Goal #1: To discuss advanced topics in power electronics.
- Goal #2: To prepare the students to conduct research or help them to improve and/or develop their research skills
- Both goals are equally important

LCM & HCF

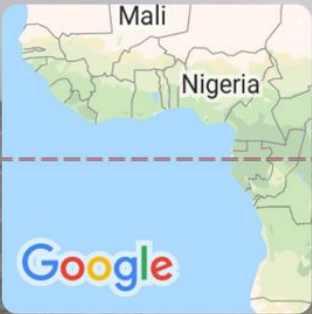
Find the HCF 12, 24, 36

LCM = 72

HCF = 12

LCM x HCF = 72 x 12 = 864

LCM x HCF = 12 x 24 x 36 = 10368



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 India
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 15/04/21 03:09 PM

MERITS OF PROSAT

- LOW COST
- SMALL SIZE
- DETECT HUMAN SURVEILLANCE
- LESS DEVELOPMENT TIME
- LESS LAUNCH COST
- SUSTAIN FREQUENT LAUNCHES



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