



Excelsior Education Society's
K.C. College of Engineering and Management Studies and Research
(Affiliated to the University of Mumbai)
Mith Bunder Road, Near Hume Pipe, Kopri, Thane (E)-400603

Department of Information Technology

Innovation in Teaching Learning

Subject-Computer Network and Network Design

Class-SE IT SEM IV(2023-24)

Activity 1.Edpuzzle video assignment

All students hereby informed to submit the EdPuzzle activity on or before saturday (6th April,2024)

Steps:

- click the link which is attached
- watch video
- answer the questions
- submit activity

Activity: Ed Puzzle video quiz

The screenshot shows the EdPuzzle interface for a video assignment titled "Layer 3 of the OSI Model (Network Layer)" by Seema Bhuravane. The video player shows a video titled "Layer 3: Network". The quiz section shows 135 answers to grade. The table below shows the results of the quiz for two students.

Student Name	Watched	Grade	Attempts	Last watched	Turned in
AMBRALE, BHAKTI		-	1/1	April 6th	✓ On time
ANSARI, NEEKHAT		-	1/1	April 20th	✓ Late

Fig.1- EdPuzzle proofs of submitted Quiz



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Student Name	Watched	Grade	Attempts	Last watched	Turned in
AMBRAL, BHAKTI	<div></div>	-	1/1	April 6th	✓ On time
ANSARI, NEEKHAT	<div></div>	-	1/1	April 20th	✓ Late
AUTI, PRATIK	<div></div>	-	1/1	April 30th	✓ Late
BANOTE, SANIKA	<div></div>	-	1/1	April 20th	✓ Late
CHAURASIA, AYUSH	<div></div>	-	1/1	April 4th	✓ On time
CHAVAN, POOJA	<div></div>	-	1/1	April 20th	✓ Late
DHANDE, ATHARV	<div></div>	-	1/1	April 18th	✓ Late
GUPTA, DEEPIKA	<div></div>	-	1/1	April 19th	✓ Late

Fig.2- EdPuzzle proofs of submitted Quiz

Prroflink-<https://edpuzzle.com/assignments/660cf9ed25a5016a8d2082e5/students>

Observation- So by using the above video students understand the concepts very well.

Prepared By

Ms.Seema Bhuravane

Assistant Professor



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Department of Information Technology

Year 2023-24

Class :SE

Sem: IV

Subject: Automata Theory

Name of Activity: Assignment and Case Study on Compilers

Activity Report: Assignment study on working of Compiler was given to students to explore concepts like DAG Representation, Grammar, Syntax Analysis etc in different phases of compiler. Also student has studied different types of compilers used for Programming Language.

A case study on compiler is given for the same.

Outcome: Students understood concepts of automata theory to be used in compiler construction

Sample Report:

Assignment sample is attached

Prepared by
Ms. Amarja Adgaonkar
Assistant Professor



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Innovation in Teaching Learning

Activity :Virtual lab

SEM: IV

Subject: Computer Organization and Architecture

Faculty Name:ANGELIN ZIONIA

Academic Year: (Even SEM) (2023-2024)

Activity: Virtual lab

<https://iitb.vlabs.co.in/outreachportal/fb/>

Activity:

Quine McCluskey Algorithm

Implementation of 4*1 Multiplexer and 1*4 Multiplexer and verification and Interpretation of truth table for logic gates.



Activity Report: Students of SE are given virtual lab activity on Quine McCluskey Algorithm and 4*1 Multiplexer and 1*4 Multiplexer. Students have understood the concept of 4*1 Multiplexer and 1*4 Multiplexer and verification and Interpretation of truth table for logic gates.



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Proof:



Quine McCluskey algorithm

The function that is minimized can be entered via a truth table that represents the function $y = f(x_2, x_1, x_0)$. You can manually edit this function by clicking on the gray elements in the y column. Alternatively, y can generate a random function by pressing the "Random example" button.

Random example
Number of input variables: Allow Don't-Care:

Truth table: Implicants (Order 0): Implicants (Order 1): Implicants (Order 2):

	x_2	x_1	x_0	y
0:	0	0	0	1
1:	0	0	1	×
2:	0	1	0	×
3:	0	1	1	×
4:	1	0	0	0
5:	1	0	1	1
6:	1	1	0	×
7:	1	1	1	×

	x_2	x_1	x_0	
0:	0	0	0	→
1:	0	0	1	→
2:	0	1	0	→
3:	0	1	1	→
5:	1	0	1	→
6:	1	1	0	→
7:	1	1	1	→

	x_2	x_1	x_0	
0, 1:	0	0	-	→
0, 2:	0	-	0	→
1, 3:	0	-	1	→
1, 5:	-	0	1	→
2, 3:	0	1	-	→
2, 6:	-	1	0	→
3, 7:	-	1	1	→
5, 7:	1	-	1	→
6, 7:	1	1	-	→

	x_2	x_1	x_0	
0, 1, 2, 3:	0	-	-	✓
1, 3, 5, 7:	-	-	1	✓
2, 3, 6, 7:	-	1	-	(×)

4:	1	0	0	0
5:	1	0	1	1
6:	1	1	0	×
7:	1	1	1	×

5:	1	0	1	→
6:	1	1	0	→
7:	1	1	1	→

2, 3:	0	1	-	→
2, 6:	-	1	0	→
3, 7:	-	1	1	→
5, 7:	1	-	1	→
6, 7:	1	1	-	→

4:	1	0	0	0
5:	1	0	1	1
6:	1	1	0	×
7:	1	1	1	×

5:	1	0	1	→
6:	1	1	0	→
7:	1	1	1	→

2, 3:	0	1	-	→
2, 6:	-	1	0	→
3, 7:	-	1	1	→
5, 7:	1	-	1	→
6, 7:	1	1	-	→

Prime implicant chart:

	x_2	x_1	x_0	0	5
0, 1, 2, 3:	0	-	-	●	(\bar{x}_2)
1, 3, 5, 7:	-	-	1		● (x_0)

Extracted essential prime implicants: (\bar{x}_2), (x_0)

Minimal boolean expression:

$y = (\bar{x}_2) \vee (x_0)$

Legend:
Don't-care: ×
Implicant (non prime): →
Prime implicant: ✓
Essential prime implicant: ●
Prime implicant but covers only don't-care: (×)



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de-iitr.vlabs.ac.in/exp/multiplexer-demultiplexer/theory.html

Gmail YouTube Translate Getting Started: A Q...

Virtual Labs
An MoE Govt of India Initiative

HOME PARTNERS CONTACT

Aim
Theory
Pretest
Procedure
Simulation
Posttest
References
Feedback

Implementation of 4x1 multiplexer and 1x4 demultiplexer using logic gates.

Introduction

The function of a multiplexer is to select the input of any 'n' input lines and feed that to one output line. The function of a de-multiplexer is to inverse the function of the multiplexer and the shortcut forms of the multiplexer. The de-multiplexers are mux and demux. Some multiplexers perform both multiplexing and de-multiplexing operations.

Figure-1 Block diagram of Multiplexer and De-multiplexer

Type here to search BSE smicap -1.77% 3:04 PM 5/9/2024

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de-iitr.vlabs.ac.in/exp/multiplexer-demultiplexer/theory.html

Gmail YouTube Translate Getting Started: A Q...

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Figure-1:Block diagram of Multiplexer and De-multiplexer

1) Multiplexer Multiplexer is a device that has multiple inputs and a single line output. The select lines determine which input is connected to the output, and also to increase the amount of data that can be sent over a network within certain time. It is also called a data selector.
Multiplexers are classified into four types:

- a) 2-1 multiplexer (1 select line)
- b) 4-1 multiplexer (2 select lines)
- c) 8-1 multiplexer (3 select lines)
- d) 16-1 multiplexer (4 select lines)

1.1) 4x1 Multiplexer

4x1 Multiplexer has four data inputs D₀, D₁, D₂ & D₃, two selection lines S₀ & S₁ and one output Y. The block diagram of 4x1 Multiplexer is shown in the following figure. One of these 4 inputs will be connected to the output based on the combination of inputs present at these two selection lines. Truth table of 4x1 Multiplexer is shown below.

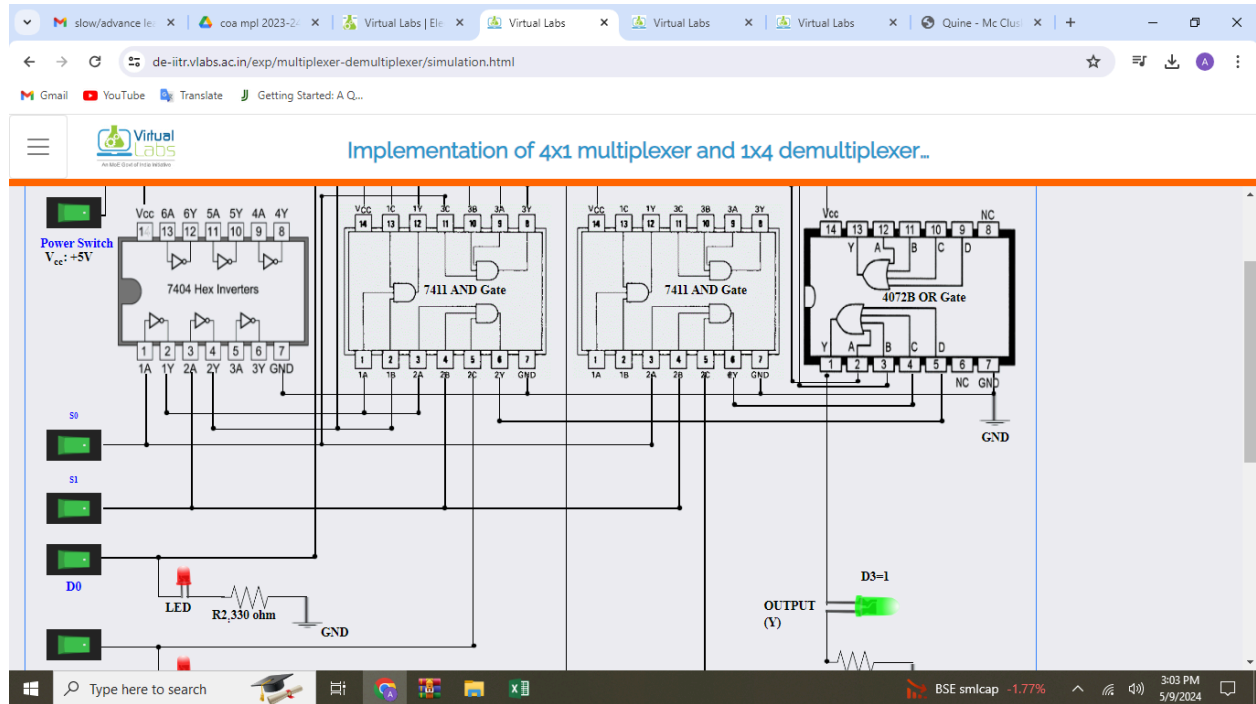
7 of 24 - Clipboard
Item not Collected: Delete items to increase available space

Type here to search BSE smicap -1.77% 3:04 PM 5/9/2024



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Academic Year 2023-24 (Even Sem)

Innovation and Teaching Learning Virtual Lab for Python Programming

Date: 28th March, 2024

Time: 12p.m to 1 p.m

Target Audience: SE IT students

Mode of Conduction:- Virtual Lab

Conducted by: Mrs. Rachna Borole and Ms. Punam Bagul

Topics covered:

- **File Handling**

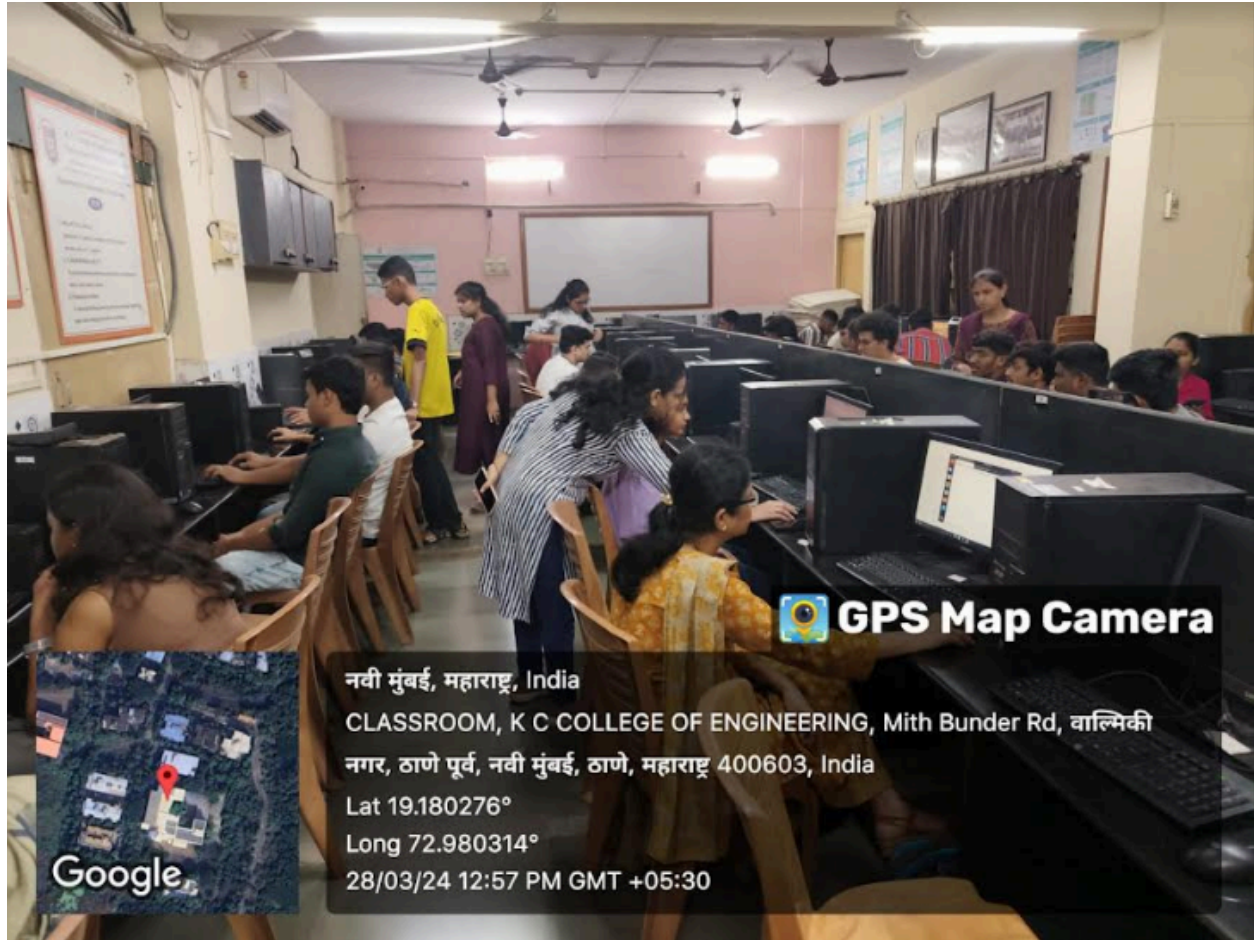
Steps to be Perform on Virtual Lab

The screenshot displays the Virtual Labs website interface. The browser's address bar shows the URL: `python-iitk.vlabs.ac.in/exp/file-operators/procedure.html`. The website header includes the Virtual Labs logo and navigation links for HOME, PARTNERS, and CONTACT. The main content area is titled "Computer Science and Engineering > Python Programming Lab > Experiments". On the left, a sidebar lists various sections: Aim, Theory, Pretest, Procedure (highlighted in orange), Simulation, Posttest, References, and Feedback. The main content area, titled "File Operation", contains a numbered list of six steps: 1. Read the simulator details. 2. Read the problem statement. 3. Press NEXT to proceed. 4. A code will be displayed. 5. Press NEXT again to see the execution of the code. 6. Relevant line in the code will be highlighted. The footer section includes "Community Links" (Sakshat Portal, Outreach Portal, FAQ: Virtual Labs), "Contact Us" (Phone: 011-26582050, Email: support@vlabs.ac.in), and "Follow Us" with social media icons for Twitter, Facebook, YouTube, and LinkedIn. The system tray at the bottom shows the date and time as 11:30 AM on 6/28/2024.



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Prepared by
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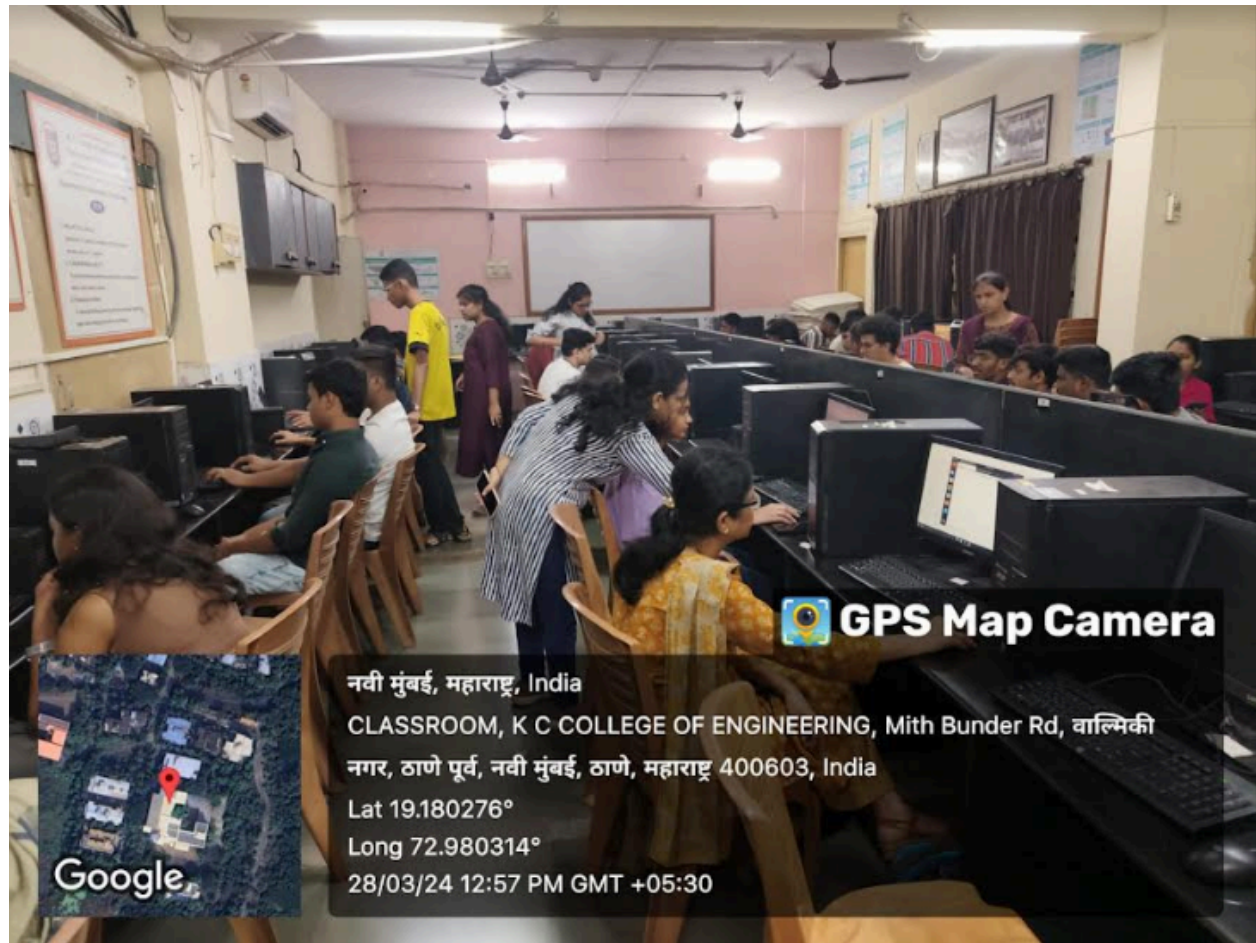
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Academic Year 2023-24

Class : TE(IT)

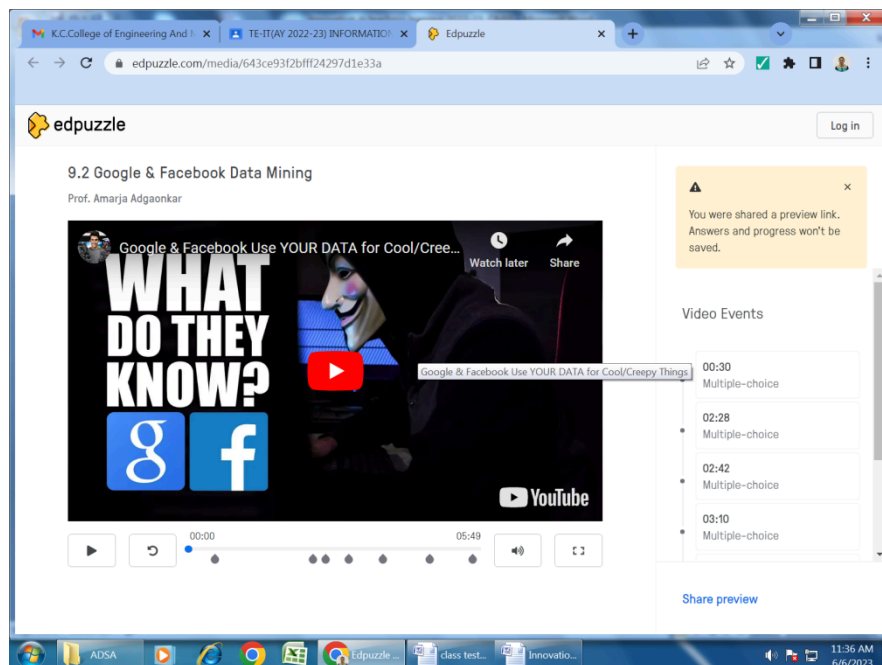
Semester : VI

Subject: Data Mining and Business Intelligence

Activity: Ed Puzzle Quiz on Google and Face book data mining.

Activity Report: Students of TE are given Ed Puzzle video quiz on real time applications of data mining i.e. Google and Facebook data mining. Students have understood applications of data mining in real time .

Proof: <https://edpuzzle.com/media/643ce93f2bfff24297d1e33a>



Prepared by

Mrs. Amarja Adgaonkar
Assistant Professor



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**Activities conducted for content beyond syllabus & Innovative Experiment(Quiz/
Workshop/Guest Lecture / Seminars / Competitions /Industrial Visit etc.)**

Innovation in Teaching Learning

Year 2023-24

Class : TE IT

Sem: VI

Subject: Web X.0

Name of Activity: THINK-PAIR SHARE

Activity Report:

Topic Name:

Students of TE are given opinion on given topic. 15 min was provided to them to discuss on the topic then they have to represent their topic with pair.

Outcome:

Students are able to conclude their knowledge of semantic web.





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Department of Information Technology

Innovation in Teaching Learning(Quiz)

Semester: VI

Class: TE

Subject: Wireless technology

Report : The Quiz is a unique and interactive method of teaching and learning and follows a question-answer format, thus increasing active participation and healthy competition. The Quiz is conducted with multiple-choice questions. It includes questions from various topics of wireless networks. Total 35 students submitted the quiz.

Sample Proof :

Wireless technology quiz 2023-24

Questions Responses Settings Total points: 20

Section 1 of 2

Wireless Technology Quiz 2023-24

Class : TEIT

Subject : Wireless Technology

Roll No. *

Short answer text

Name : *

Short answer text

After section 1 Continue to next section

Section 2 of 2

Activate Windows



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Questions Responses 35 Settings Total points: 20

Untitled Section⌵ ⋮

Description (optional)

What is the frequency range of the IEEE 802.11a standard? *

- ☐ 2.4Gbps
- ☐ 5Gbps
- ☐ 2.4GHz
- ☐ 5GHz

...

In Cisco's Unified Wireless Solution, what is the split-MAC architecture? *

- ☐ The split-MAC architecture uses MAC addresses to create a forward/filter table and break up collision do...
- ☐ The split-MAC architecture allows the splitting of 802.11 protocol packets between the AP and the contr...
- ☐ The split-MAC architecture uses MAC addresses on the wireless network and IP addresses on the wired ...
- ☐ The split-MAC architecture uses MAC addresses to create a forward/filter table and break up broadcast...



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Questions Responses 35 Settings Total points: 20

same standard will be _____.

- ☐ Interoperable
- ☐ Scalable
- ☐ Portable
- ☐ Flexible

Wireless personal devices are commonly referred to as _____ personal devices. *

- ☐ Mobile
- ☐ Digital
- ☐ Integrated
- ☐ Pocket

GPS is an acronym for Global _____ System. *

- ☐ Positioning
- ☐ Political
- ☐ Policing
- ☐ Portability

Prepared by
Ms. Punam Bagul
Assistant Professor



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Department of Information Technology

Innovation in Teaching and Learning

FlutLab Implementation

Date: 24th January, 2024

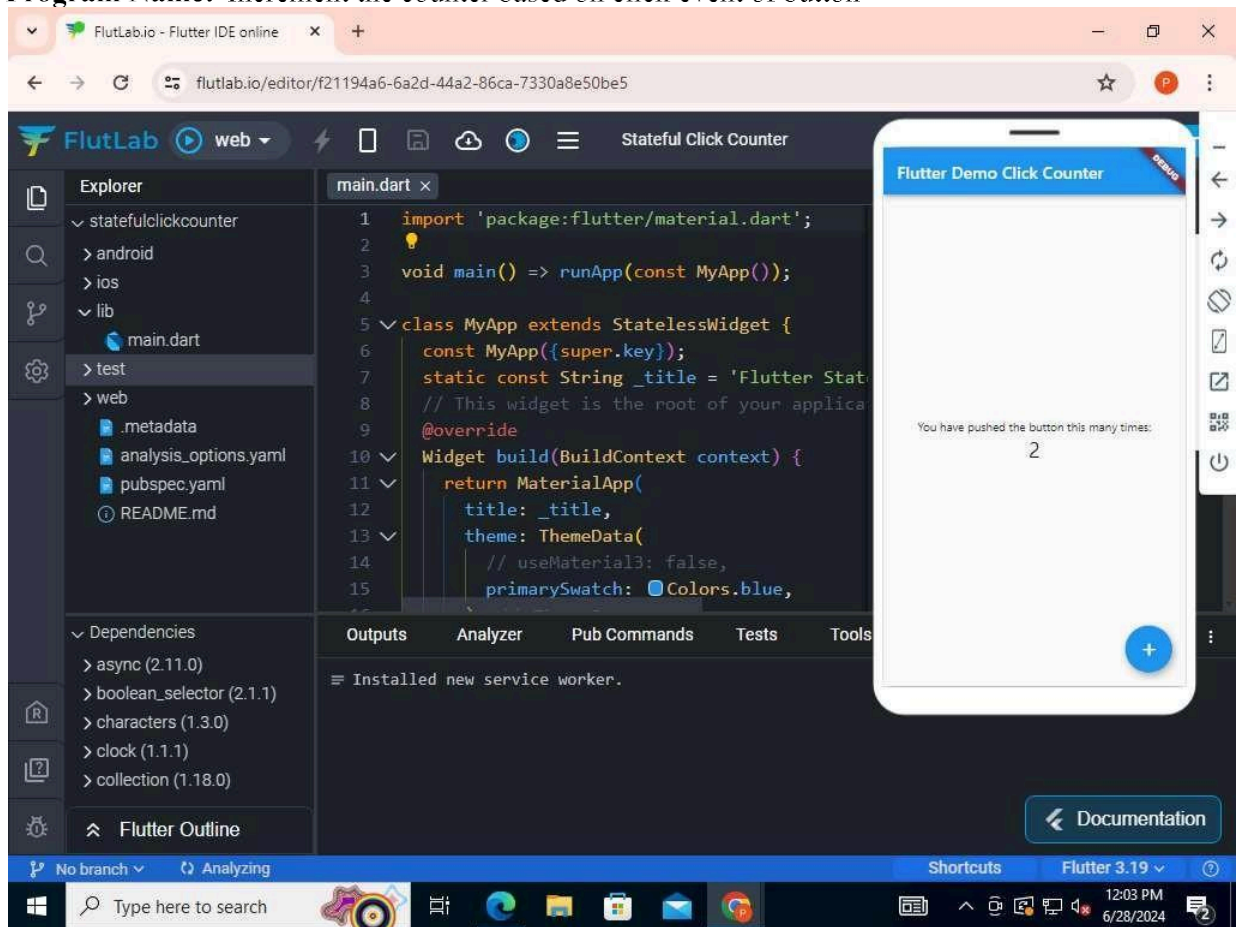
Time: 4p.m to 5p.m

Target Audience: TE IT students

Mode of Conduction:- Flut Lab

Conducted by: Mrs. Rachna Borole

Program Name: Increment the counter based on click event of button



Prepared By
Ms. Rachana Borole
Assistant Professor



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Year 2023-24

Class :BE

Sem: VIII

Subject: User Interface Design

Shreya Bhagat 7

Vaishnavi Chalke 11

Date: 11/03/24

UID Activity

Figma is a cloud-based design and prototyping tool used primarily for interface design and collaborative work. It was founded in 2012 by Dylan Field and Evan Wallace. Figma has gained widespread popularity in the design community due to its versatility, ease of use, and collaborative features. Here's a comprehensive report on Figma covering its key features, advantages, drawbacks, and its impact on the design industry:

Key Features:

- 1. Cloud-Based Platform:** Figma operates entirely in the cloud, enabling real-time collaboration among team members from anywhere in the world. This feature eliminates the need for manual file syncing and enables seamless sharing and editing of design files.
- 2. Vector Editing:** Figma offers powerful vector editing capabilities, allowing designers to create and manipulate shapes, paths, and text with precision.



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3. Prototyping: Designers can create interactive prototypes directly within Figma, making it easy to visualize and test user interactions and flows. Prototypes can be shared with stakeholders for feedback and review.

4. Component-Based Design: Figma utilizes a component-based approach to design, where elements can be reused and nested within one another, streamlining the design process and ensuring consistency across projects.

6. Version History: Figma automatically saves version history, enabling designers to revert to previous iterations of their designs if needed.

Advantages:

1. Collaboration: Figma's real-time collaboration features make it an ideal tool for remote teams, enabling seamless communication and coordination among team members.

2. Cross-Platform Compatibility: Figma runs in the browser, making it compatible with both Mac and PC operating systems. Additionally, it offers desktop apps for offline use.

3. Accessibility: Figma's cloud-based nature makes it accessible from any device with an internet connection, allowing designers to work from anywhere.

4. Cost-Effective: Figma offers a range of pricing plans, including a free tier with limited features, making it accessible to freelancers and small teams.

5. Regular Updates: Figma consistently releases updates and new features based on user feedback, ensuring that the tool remains relevant and competitive in the ever-evolving design landscape.

Impact on the Design Industry:

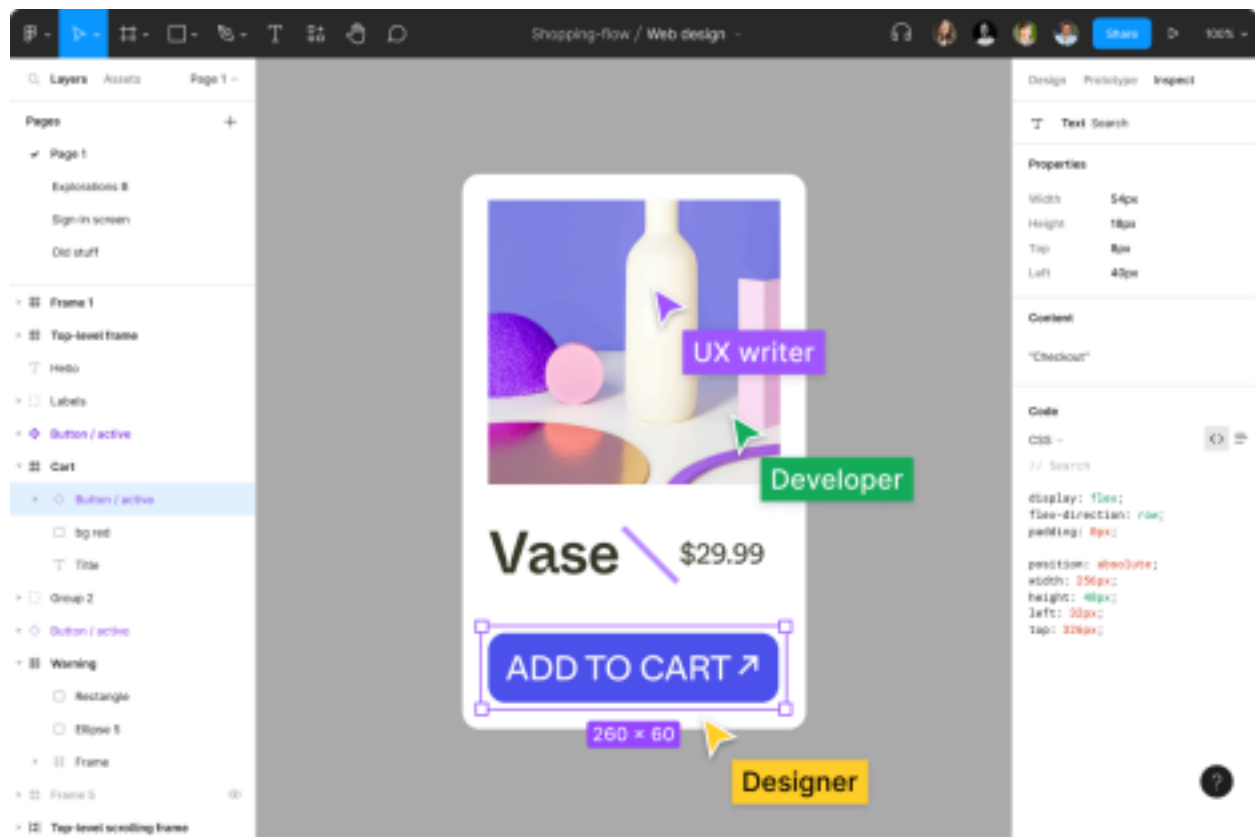


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Figma has had a significant impact on the design industry, particularly in the areas of collaboration and remote work. Its cloud-based platform and real-time collaboration features have transformed the way design teams collaborate, making it easier for them to work together regardless of their location. Additionally, Figma's emphasis on accessibility and affordability has democratized design, making high-quality design tools accessible to a broader audience.

In conclusion, Figma is a versatile and powerful design tool that offers a range of features to support the entire design process, from ideation to prototyping to handoff. While it has some limitations, its benefits far outweigh its drawbacks, making it a popular choice among designers and design teams worldwide.





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Prepared by

Ms. Priyanaka Sonawane

Assistant Professor

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Department of Information Technology
INNOVATION IN TEACHING LEARNING
(Year 2024-25)

Class: SE (IT)
SQL

SEM: III

Subject:

Faculty Name: Devika Rani Roy

Academic Year: (III SEM) (2024-2025)

Activity: Quiz

Activity Report

A online quiz is usually a short test, and often doesn't have a huge impact on your grades as a test has. It's an easy way to keep track of your students and have an insight into the gaps of knowledge. It gives both the teacher and student a reflection. It shows students on what subject they have to focus. There are different kinds of questions that can be used for quizzes.

Analysis of result is done online which helps student in knowing in which area they are strong or weak. Difficulty level in quiz can be increased or decreased in various stages of quiz.

Outcome: Students enjoy playing quiz which helps them in even understanding that in which areas of subject they are strong or weak and improves their remembering skills. Students do not have to wonder if their answer is correct or not as they answer a question, the quiz programs tell the student. Students can answer without feeling badly about having a wrong answer as can happen in a class.

Proof :

Quiz Link and Photos

<https://forms.gle/SVg1C7TBQX31YaEp7>

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INNOVATION IN TEACHING LEARNING
(Year 2024-25)

SQL Quiz 24-25

Questions Responses 47 Settings

Total points: 20

SQL Quiz 24-25

B I U

Attempt all the questions.....All the best

Name

Short answer

Short answer text

☒ Answer key (0 points)

Required ☒

Roll no. *

Short answer text

Which of these query will display the the table given above ? *

Activate Windows

Go to Settings to activate Windows.

Questions Responses 47 Settings

Total points: 20

Short answer text

Which of these query will display the the table given above ? *

☐ a) Select employee from name

☐ b) Select name

☐ c) Select name from employee

☐ d) Select employee

DCL provides commands to perform actions like *

☐ Change the structure of Tables

☐ Insert, Update or Delete Records and Values

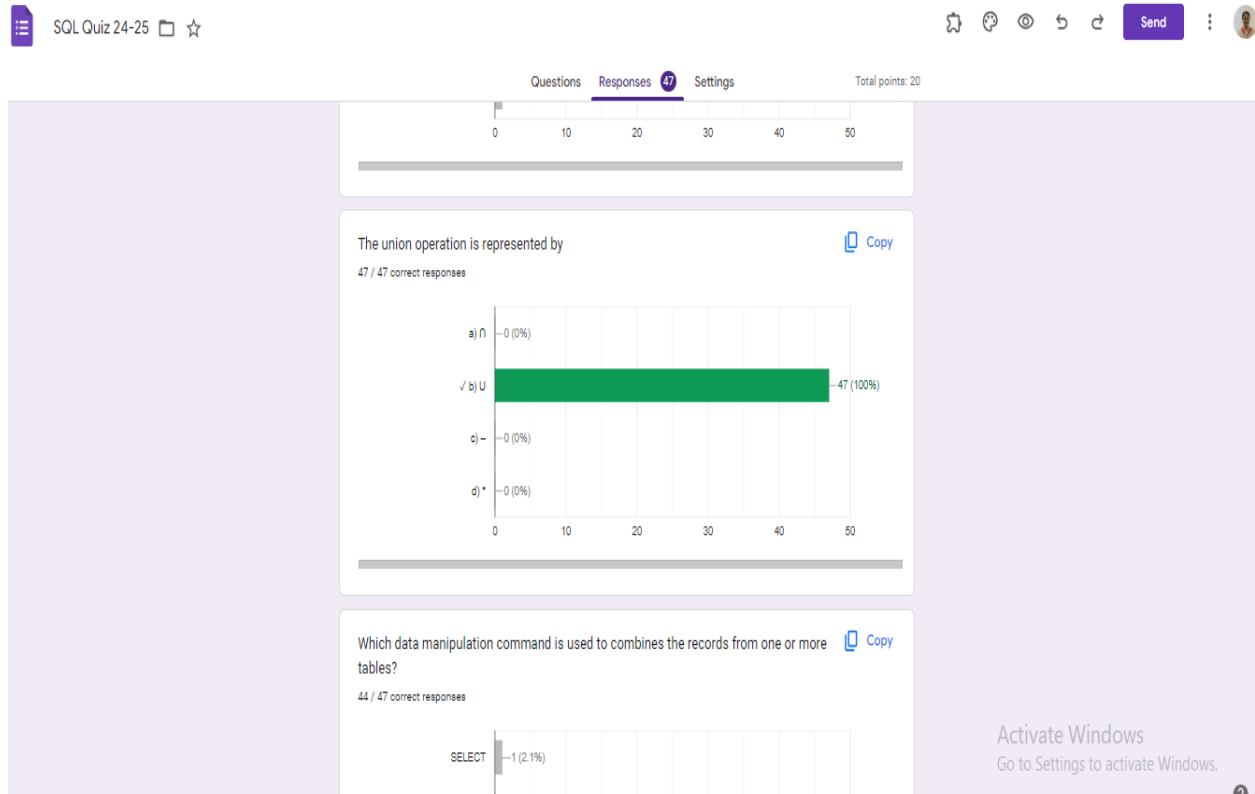
☐ Authorizing Access and other control over Database

☐ None of Above

Activate Windows

Go to Settings to activate Windows.

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(Year 2024-25)



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INNOVATION IN TEACHING LEARNING
(Year 2024-25)

Class: SE (IT) **SEM:** III

Subject: DBMS

Faculty Name: Devika Rani Roy

Academic Year: (III SEM) (2024-2025)

Activity: Mind Mapping

Activity Report

A mind map involves writing down a central theme and thinking of new and related ideas which radiate out from the centre. By focusing on key ideas written down in your own words and looking for connections between them, you can map knowledge in a way that will help you to better understand and retain information.

Explore new ideas and concepts

Help students get a better understanding of new ideas by having them create a mind map. A mind map can assist with understanding because it conveys hierarchy and relationships, allowing students to see the big picture.

Brainstorm

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Study for an assessment

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(Year 2024-25)

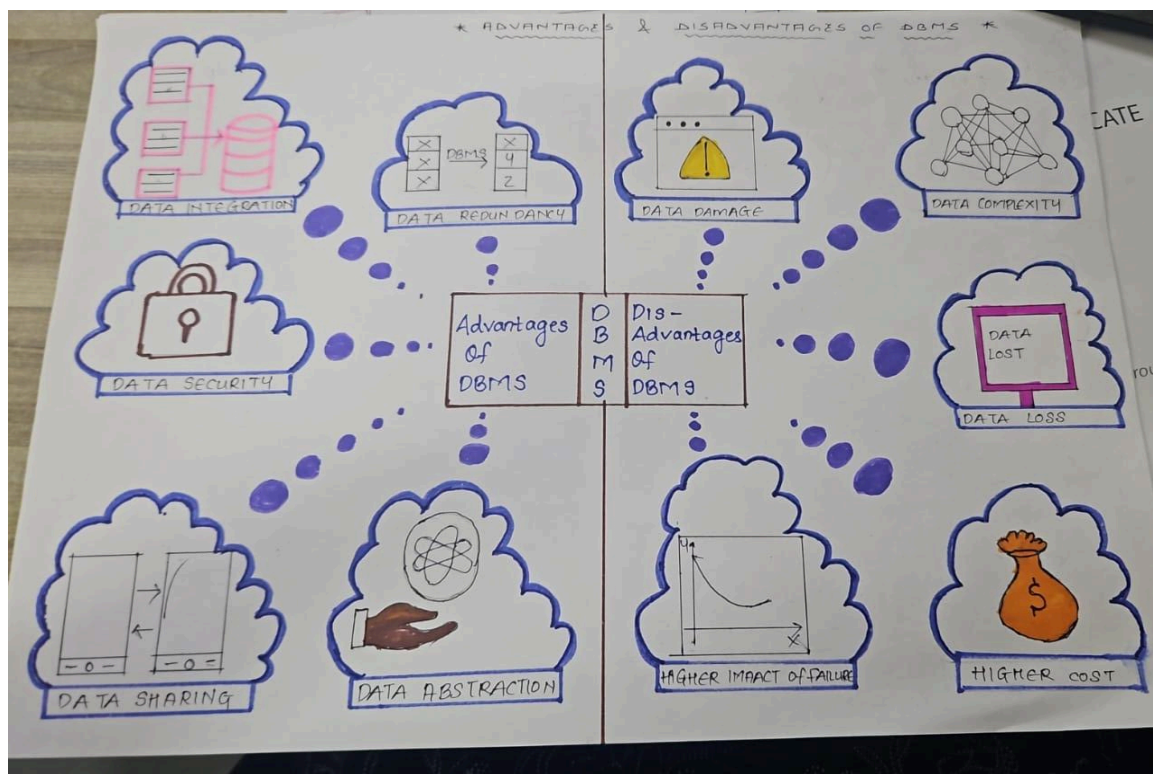
Mind maps are a great way for students to gather all the information that may be covered on an exam including class notes, textbook chapters and reading lists.

Execute group projects

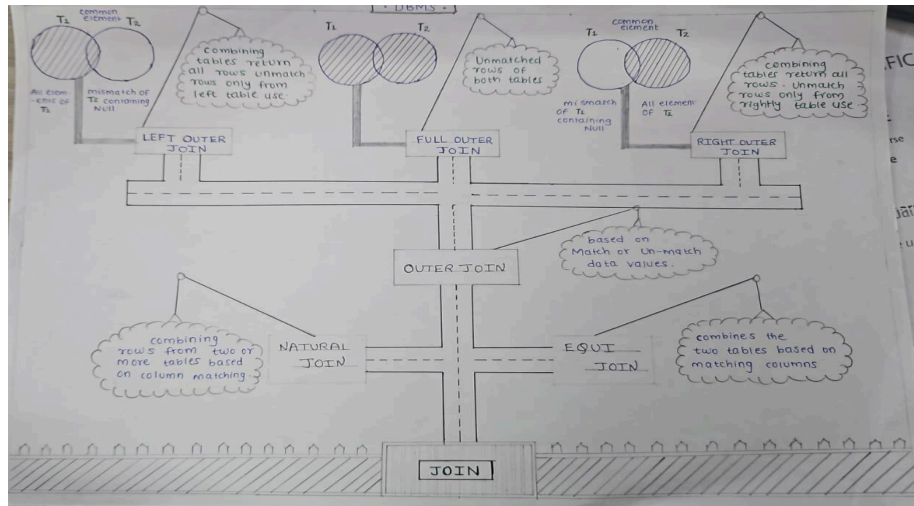
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Outcome: Mind mapping helps in generating, visualising, organising, note-taking, problem-solving, and decision-making, revising and clarifying your university topic, so that students can get started with assessment tasks. Essentially, a mind map is used to 'brainstorm' a topic and is a great strategy for students.

Sample proof:



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(Year 2024-25)

Class: SE (IT) **SEM:** V

Subject: EEB

Faculty Name: Devika Rani Roy

Academic Year: (VSEM) (2024-2025)

Activity: Flip Classroom

Activity Report: Flipped classroom is a “pedagogical approach in which direct instruction moves from the group learning space to the individual learning space, and the resulting group space is transformed into a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in the subject matter” Flipping speaks the language of today’s students. Flipping helps busy students. Flipping helps struggling students. Flipping helps students of all abilities to excel. Flipping allows students to pause and rewind their teacher. Flipping increases student-teacher interaction. Flipping allows teachers to know their students better. Flipping increases student-student interaction. Flipping allows for real differentiation. Flipping changes classroom management.

Outcome: Free from the constraints of the classroom-based lecture, a flipped classroom allows students to engage in self-paced learning, as well as think critically and collaborate with classmates, all with their instructors close at hand. By combining the engagement of active learning in the classroom, the flipped classroom holds benefits for students and instructors alike.

Link of PPT:

SAMPLE 1:

<https://drive.google.com/file/d/1xDwpa6nxBIYKVeQL6oJ9VOsxNZvHIPfQ/view?usp=sharing>

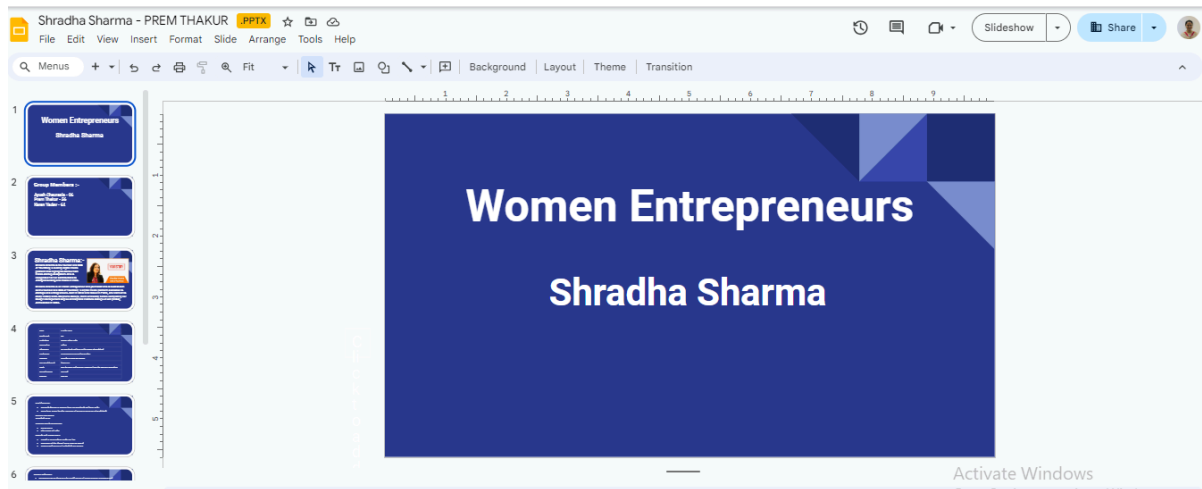
SAMPLE 2:

<https://drive.google.com/file/d/1rC3OeylQ0km2tTUON55bEtkfMgCgbMf9/view?usp=sharing>

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(Year 2024-25)

Class :TE(IT)

Semester : V

Subject: Internet Programming

Activity: Think Pair Share

Think-pair-share is a collaborative teaching strategy used to help students form individual ideas, discuss and share with the others in-group.

Activity Report:

Students of T.E.I.T are shared their views on Client Side Scripting and Server Side Scripting.

Activity was conducted by Prof.Priyanka Sananse on TE IT class.

I have made group of 2 students. Topic name was given to students.

Then I have asked each students to thoughts on the topic (group pair wise) and write their opinion.

After 15 minutes Pairwise group share their thoughts to each other.

Outcome:

Students are able to conclude their knowledge of Client Side Scripting and Server Side Scripting.

Proof:



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Class : TE (IT)
Semester : V

Subject: Computer Network Security

Activity: Ed Puzzle Video and Quiz solving

Activity Report: Students of TE IT are given Quiz on Firewall and Its types and to solve using Ed Puzzle.

Proof: <https://edpuzzle.com/assignments/66fbd98c833ff35bf36e9740>

The screenshot shows a web browser window with the Edpuzzle website. The address bar shows the URL: edpuzzle.com/assignments/66fbd98c833ff35bf36e9740. The page title is "Video Assignment". The main content area displays a video player for the video "What Is Firewall ? | Firewall Explained | Firewalls and Network Security | Simplilearn" by Aarti Abhyankar. The video player shows a thumbnail with the text "What's a Firewall?". To the right of the video player, there is a section with the video title, author, start date (Oct 1st, 12:00am), due date (Oct 6th, 11:59pm), and a button to "Update on Google Classroom". Below the video player, there is a "Students" tab and a "Questions" tab. The "Students" tab is active, showing a table with columns: Student Name, Watched, Grade, Attempts, Last watched, and Turned in. The table is currently empty. At the bottom of the page, there is a Windows taskbar with the search bar, taskbar icons, and system tray showing the date and time (14:25, 14-10-2024).

Prepared by,

A.P Aarti Abhyankar

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(Year 2024-25)

Class :BE(IT)
Date:07/08/2024

Semester : VII Subject: STQA

Activity: Think Pair Share

Think-pair-share is a collaborative teaching strategy used to help students form individual ideas, discuss and share with the others in-group.

Activity Report:

Students of B.E.I.T are shared their views on functions of Software Metrics and its Four Types

Activity was conducted by Prof.Aarti Abhyankar on BE IT class.

I have made group of 2 students. Topic name was given to students i.e Software Metrics and its Types .

Then I have asked each students to think on the topic (group pairwise) and write their opinion.

After 15 minutes the Pairwise group shared their thoughts to each other as well as Class.

Outcome:

Students are able to conclude their knowledge of Software Metrics and its Types

Proof:

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Class: TE (IT)

SEM: VII

Subject: STQA

Faculty Name: Aarti Abhyankar

Academic Year: 2024-2025

Activity: Mind Mapping

Activity Report

A mind map involves writing down a central theme and thinking of new and related ideas which radiate out from the centre. By focusing on key ideas written down in your own words and looking for connections between them, you can map knowledge in a way that will help you to better understand and retain information.

Explore new ideas and concepts

Help students get a better understanding of new ideas by having them create a mind map. A mind map can assist with understanding because it conveys hierarchy and relationships, allowing students to see the big picture.

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