

**EX.NO: 1  
DATE:09.09.25**

## **CREATING PRESENTATION USING MS OFFICE**

### **AIM:**

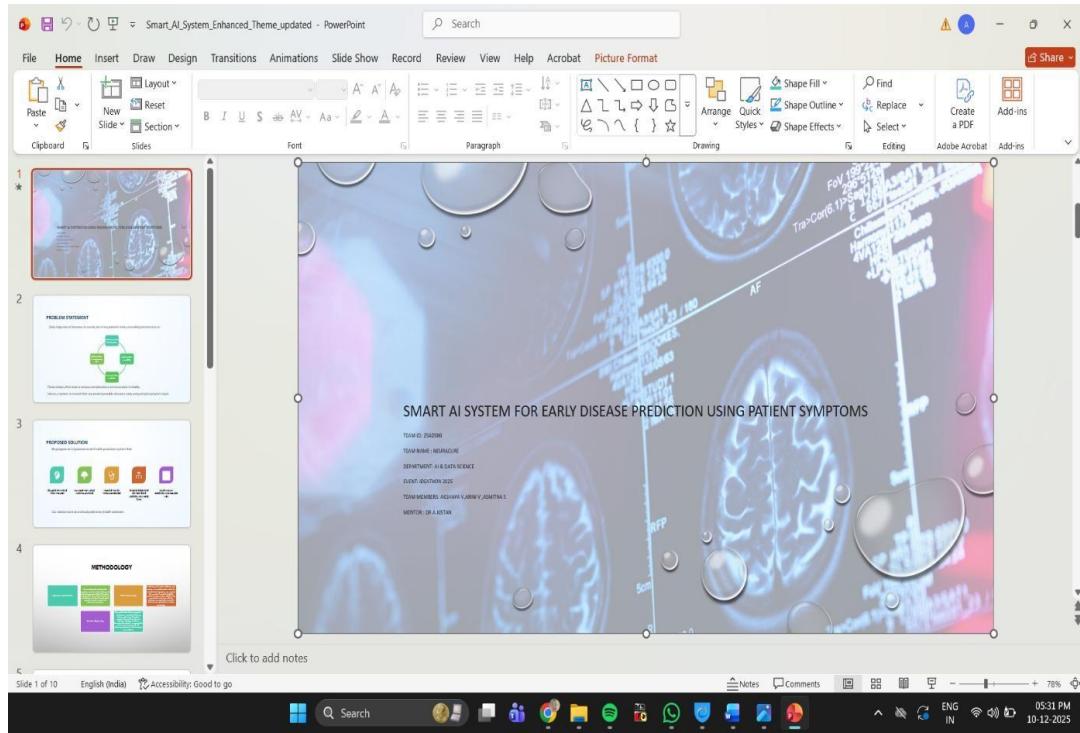
To create a PowerPoint presentation using Microsoft PowerPoint by inserting text, images, design themes, animations, and transitions.

### **ALGORITHM:**

1. Start PowerPoint
  - Click Start Menu → Microsoft Office → PowerPoint.
  - Select Blank Presentation.
2. Choose a Design Theme
  - Go to the Design tab.
  - Select any theme or variant.
3. Create Title Slide
  - Click on the Title Slide layout.
  - Enter the Title and Subtitle.
4. Insert New Slides
  - Go to Home → New Slide.
  - Choose required layout.
5. Add Text Content
  - Type text and use formatting tools.
6. Insert Images/Shapes/Charts
  - Go to Insert tab and choose the required object.
7. Apply Transitions
  - Go to Transitions tab.
  - Apply effects and duration.
8. Add Animations
  - Select an object and apply animation.
  - Use Animation Pane.
9. Insert Slide Numbers & Footer
  - Insert → Header & Footer.
10. Save & Run Slideshow
  - File → Save As → .pptx

- Press F5 to run slideshow.

## SAMPLE OUTPUT:



## RESULT:

Thus the presentation was created successfully using MS powerpoint

**EX.NO: 2**  
**DATE:09.09.25**

## **LEARNING TOOLS OF PHOTOSHOP**

### **AIM:**

Learn the Adobe Photo Shop Tools such as Move & Selection Tools, Crop & Slice Tools, Retouching & Healing Tools, Painting & Drawing Tools, Vector & Shape Tools, Navigation Tools, Eyedropper & Measurement Tools and Extra Tools and do the following,

- Adding text using Type tool
- Make Selections with the Magnetic Lasso Tool
- Replace unwanted content with the patch tool and Apply filter to it
- Work with the smudge tool to smooth and blend colors.
- Blur areas in an image with Blur tool.
- Remove background using eraser tool
- Paints with pixels from another area using Clone Stamp Tool (S)

### **ALGORITHM:**

#### **1. ADDING TEXT USING TYPE TOOL**

#### **PROCEDURE:**

Steps to Use the Text Box Tool in Photoshop

##### **1. Select the Type Tool (T)**

Click the T icon in the toolbar or press T on your keyboard.

##### **2. Click and Drag to Draw a Text Box**

Drag your mouse to create a rectangular area where you want your text.

##### **3. Type Your Text Inside the Box**

Start typing—your text will automatically wrap inside the box.

##### **4. Format the Text**

Use the Options Bar at the top to change font, size, color, alignment, and spacing.

##### **5. Confirm and Adjust**

Click the ✓ Checkmark or press Ctrl + Enter to apply. You can resize the box or move it with the Move Tool (V).

#### **SAMPLE OUTPUT:**

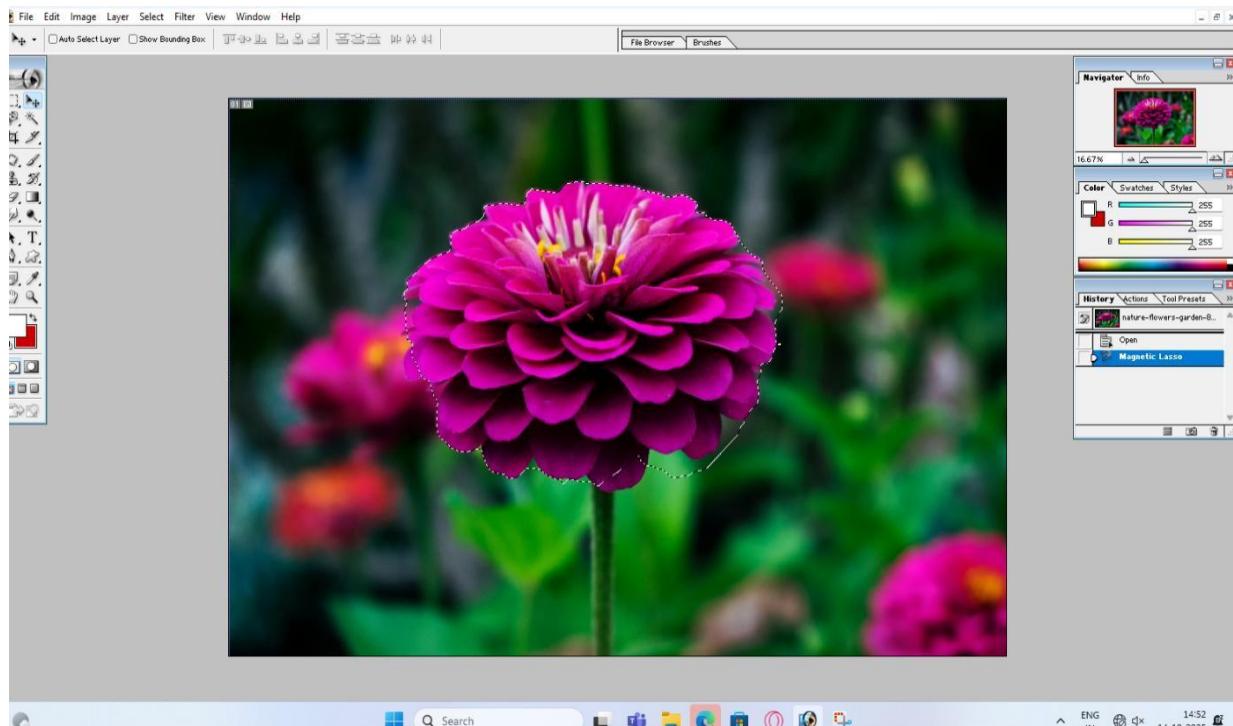


## 2. MAKE SELECTIONS WITH THE MAGNETIC LASSO TOOL

### PROCEDURE:

1. **Open Your Image:**
  - o Open Adobe Photoshop.
  - o Go to File > Open and select the image you want to work with.
2. **Select the Magnetic Lasso Tool:**
  - o In the toolbar, right-click on the Lasso Tool icon and select the Magnetic Lasso Tool.
3. **Make a Selection:**
  - o Click on the edge of the object you want to select to set the starting point.
  - o Move your cursor along the edge of the object. The Magnetic Lasso Tool will automatically snap to the edges based on color and contrast.
  - o Click to add anchor points manually if needed.
  - o Close the selection by clicking on the starting point or pressing Enter.

### SAMPLE OUTPUT:



## 3. REPLACE UNWANTED CONTENT WITH THE PATCH TOOL AND APPLY A FILTER TO IT

### PROCEDURE:

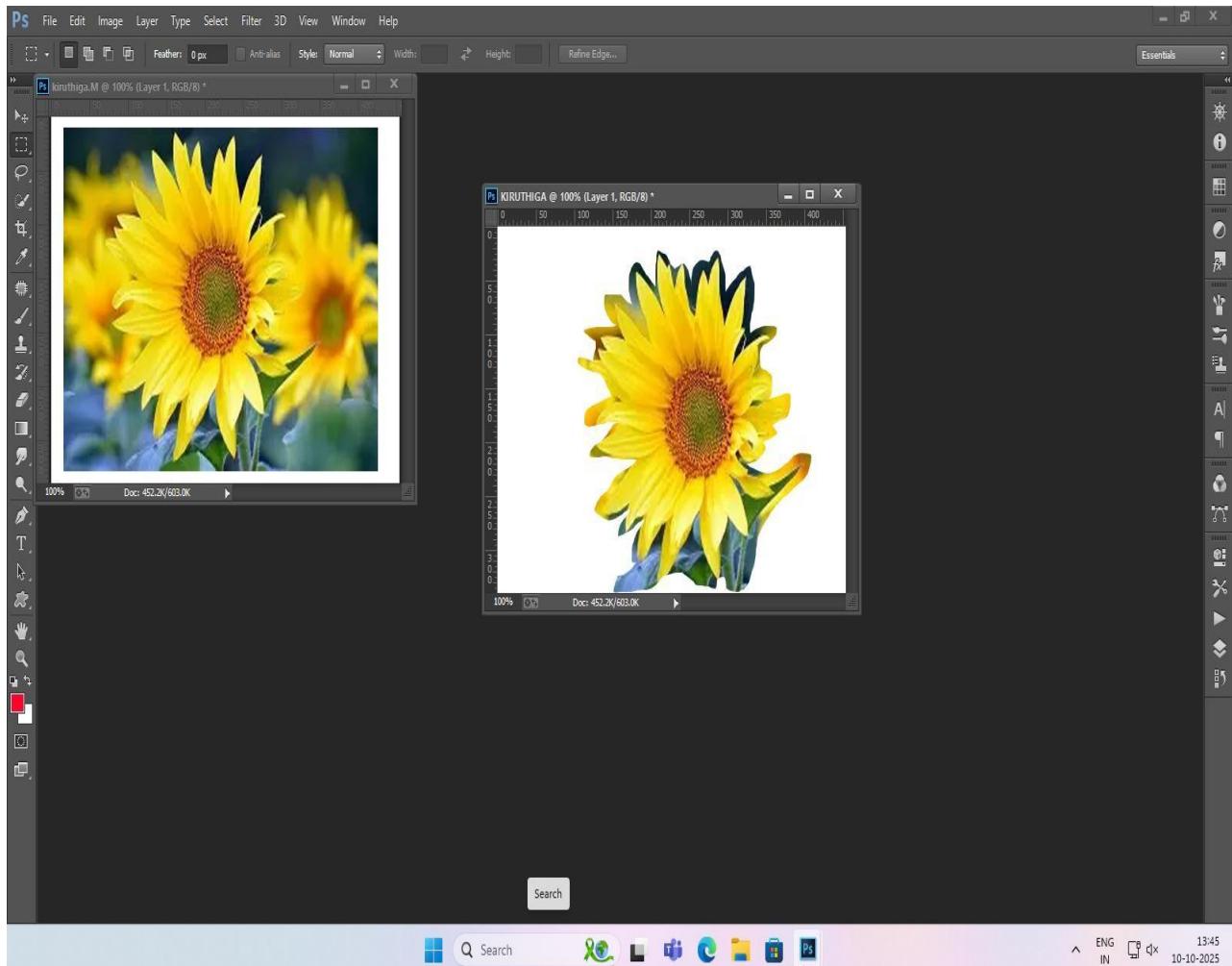
- a. **Select the Patch Tool:**
  - i. In the toolbar, right-click on the Spot Healing Brush Tool and select the Patch Tool.
  - ii. Alternatively, press J on your keyboard and cycle through the tools until you get to the Patch Tool.
- b. **Make a Selection with the Patch Tool. to replace**
  - i. Click inside the selection and drag it to the area you want to use as the source for the patch.
  - a. **Draw a selection around the unwanted content you want**

Release the mouse button to apply the patch.

#### b. Apply a Filter:

- ii. With the patched area still selected, go to Filter > Blur > Gaussian Blur (or any other filter you want to apply).
- o Adjust the settings as needed and click OK.

#### SAMPLE OUTPUT:



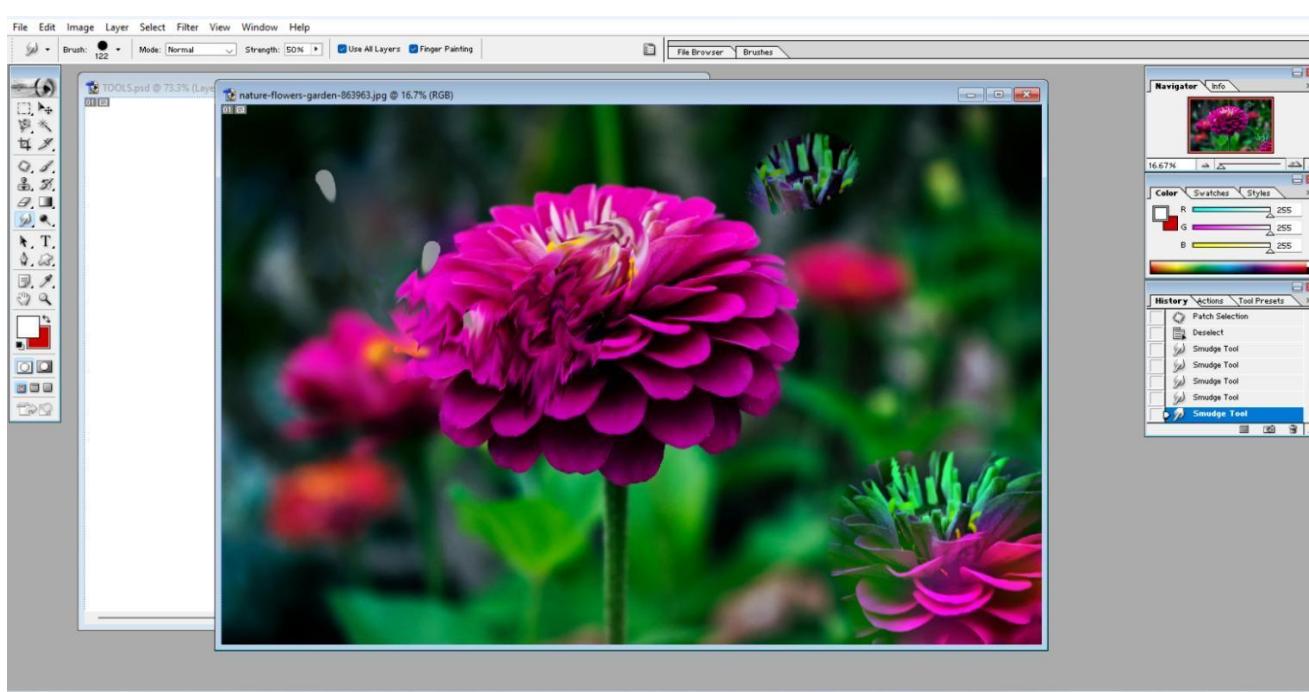
#### 4. WORK WITH THE SMUDGE TOOL TO SMOOTH AND BLEND COLORS.

**Smudge Tool** : allows you to mix or blend the content in an area of your image.

#### PROCEDURE:

1. Select the **Smudge Tool** from the toolbar.
2. Adjust the brush size and strength to suit your blending needs.
3. Click and drag the tool over the area where the orange and purple colors intersect, gently smudging them together to create a seamless gradient.

#### SAMPLE OUTPUT:



## 5. BLUR AREAS IN AN IMAGE WITH BLUR TOOL.

**BLUR TOOL :** blur Areas in an Image with the Blur Tool

### PROCEDURE:

#### 1. Open the Image

- Open the image of the bird in Photoshop.

#### 2. Select the Wings

- Use the **Lasso Tool** or **Quick Selection Tool** to select the wings of the bird.
- Refine the selection using **Select and Mask** (found in the options bar) for a smoother edge, if needed.

#### 3. Create a New Layer

- After selecting the wings, press **Ctrl + J** (Windows) or **Cmd + J** (Mac) to duplicate the selected area to a new layer.

#### 4. Apply Blur

- With the new layer selected, go to **Filter > Blur > Gaussian Blur** (for a smooth, even blur).
- Adjust the **Radius** slider to control the intensity of the blur. A higher radius will create a more pronounced blur.

#### 5. Adjust the Effect (Optional)

- If you want a more focused blur on certain parts of the wings, use a **Layer Mask** to paint over the areas where you want to reduce the blur using a **soft brush** with low opacity.

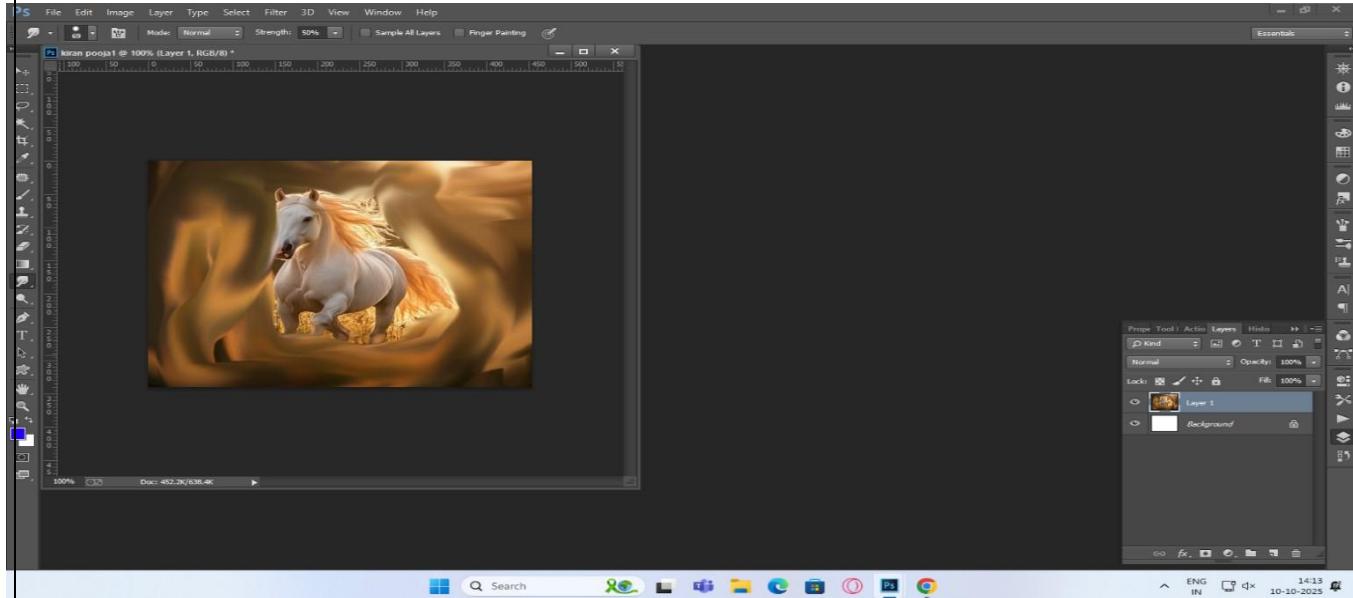
#### 6. Fine-Tune the Selection

- If needed, use the **Eraser Tool** to erase any unwanted blur areas from the wings.

#### 7. Final Adjustments

- Zoom in and adjust the edges if the blur needs refining.
- Once satisfied, **save the image** in your preferred format.

### SAMPLE OUTPUT:



## 6. REMOVE BACKGROUND USING ERASER TOOL

**Background Eraser tool** in Adobe Photoshop.

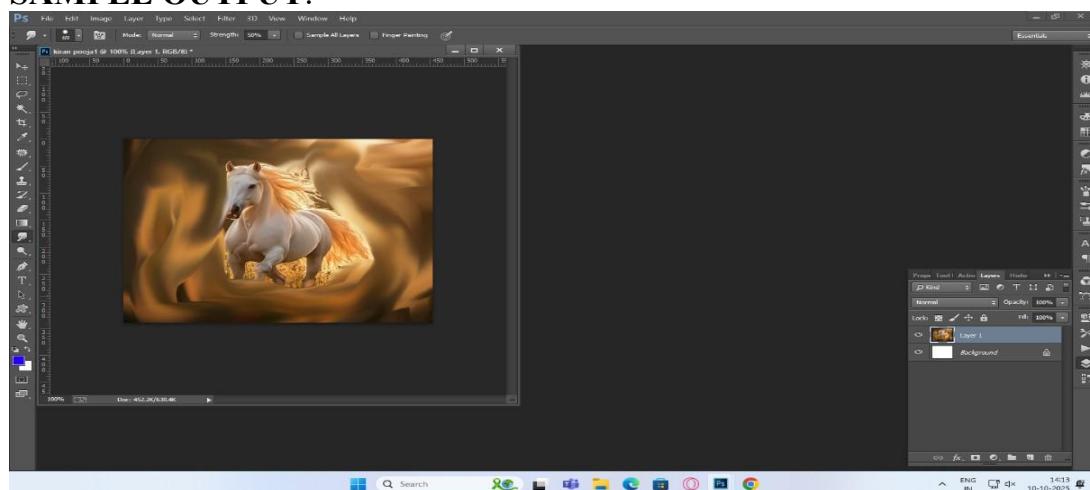
1. Select the **Background Eraser tool** (E) from the toolbar. If you can't find the **Background Eraser tool**, select and hold the **Eraser tool** to show the other related tools, and then select the **Background Eraser tool**.



2. In the tool options bar, do the following:

- Select the Brush size, hardness, and spacing according to your requirement.
  - Specify Sampling, Limits, and Tolerance.
  - Turn on the **Protect Foreground Color** option.  
Your mouse will now become a circle with a crosshair inside it. Inside the crosshair, select the color you want to erase.
3. Hold and drag the cursor in the area to select the pixels you want to erase.

### SAMPLE OUTPUT:



## 7. PAINTS WITH PIXELS FROM ANOTHER AREA USING CLONE STAMP TOOL (S)

### Steps to Use Clone Stamp Tool (S)

#### 1. Select the Clone Stamp Tool

Click the Clone Stamp icon in the toolbar or press S.

#### 2. Choose Brush Size

Use the top Options Bar to set brush size and softness.

#### 3. Select the Source Area

Hold Alt (Windows) or Option (Mac)

→ Click on the area you want to copy (the source pixels).

#### 4. Paint on the Target Area

Move your cursor to the area you want to fix and paint by clicking or dragging.

#### 5. Repeat if Needed

Alt/Option-click again to reset a new source and continue cloning.

### SAMPLE OUTPUT:



## RESULT

Thus the following Adobe Photo Shop Tools are demonstrated

- Adding text using Type tool
- Make Selections with the Magnetic Lasso Tool
- Replace unwanted content with the patch tool and Apply filter to it
- Work with the smudge tool to smooth and blend colors.
- Blur areas in an image with Blur tool.
- Remove background using eraser tool
- Paints with pixels from another area using Clone Stamp Tool (S)

**EXP.NO:3**  
**DATE:09.09.25**

## **DESIGN OBSERVATION FRONT PAGE USING PHOTOSHOP**

### **AIM**

To design an Observation Notebook Front Page in Adobe Photoshop using text formatting, image insertion, shapes, colors, and alignment tools, similar to the given college template.

### **PROCEDURE**

Step 1:

Open Adobe Photoshop → Go to File → New → Set page size to A4 (2480 × 3508 px) and set the background color to yellow.

Step 2:

Use the Text Tool (T) to type the college details at the top:

College Name (Bold, Center aligned)

Accreditation details

Address

Adjust font size, alignment, and spacing using the Character Panel.

Step 3:

Insert the college logo image using File → Place Embedded.

Resize it using Free Transform (Ctrl + T) and place it at the center of the page.

Step 4:

Use the Text Tool (T) again to add the heading “OBSERVATION NOTE-BOOK” below the logo.

Center align the text and increase the font size.

Step 5:

Create the student detail section at the bottom:

Use Text Tool to type labels: NAME, ROLL NO, REG. NO, YEAR, SECTION

Draw straight underline lines using the Line Tool (U)

Align labels and lines using the Move Tool (V) to match the given layout.

Step 6:

Check the alignment of all text and logo elements.

Save the file as PSD for editing and export final output as JPEG/PDF.

### SAMPLE OUTPUT:

|   |       |
|---|-------|
| <b>PANIMALAR ENGINEERING COLLEGE</b><br><b>(A CHRISTIAN MINORITY INSTITUTION)</b><br><b>JAISAKTHI EDUCATIONAL TRUST</b><br>Approved by All India Council for Technical Education, New Delhi<br>An Autonomous Institution, Affiliated to Anna University, Chennai<br>UG Programmes are Permanently Affiliated to Anna University<br>Programmes are Accredited by National Board of Accreditation (NBA)<br>Approved by UGC for 2(f) & 12(B) Status<br>Bangalore Trunk Road, Varadharajapuram, Nazarethpet,<br>Poonamalle, Chennai - 600 123 |       |
|   |       |
| <b>OBSERVATION NOTE-BOOK</b>  |       |
| NAME :  | ..... |
| ROLL NO. :  | ..... |
| REG. NO. :  | ..... |
| YEAR :  | ..... |
| SECTION :   | ..... |

**RESULT:**

Thus the front page of observation note book was designed and created successfully by using photoshop.

**EXP.NO:4**  
**DATE:16.09.25**

## **DESIGN OUR COLLEGE LOGO USING PHOTOSHOP.**

### **AIM**

Design Panimalar Engineering College logo using photoshop tools.

### **ALGORITHM**

#### **Step 1: Open a New Document**

1. Open Photoshop.
2. Create a new document with the desired dimensions. For example:
  - Width: 1000px
  - Height: 1000px
  - Resolution: 300dpi for high-quality output.

#### **Step 2: Plan the Logo Elements**

1. Sketch the basic layout of the logo (for example, whether it has text, shapes, or symbols).
2. Determine the colours, shapes, fonts, and design elements that represent the college's brand identity.
3. Prepare any symbols, icons, or text needed for the logo (e.g., an emblem, shield, or crest).

#### **Step 3: Draw the Base Shape of the Logo**

1. Select the Shape Tool (U) from the toolbox.
2. Choose the appropriate shape for your logo base (e.g., circle, square, or shield).
3. Hold the Shift key (for a perfect circle or square) and draw the shape on the canvas.
4. Set the fill colour and stroke to match the primary colour of the logo.

#### **Step 4: Create Symbols or Emblems (if applicable)**

1. If the logo includes symbols (e.g., a book, torch, or emblem), use the Shape Tool (U) to draw simple shapes, or use the Pen Tool (P) for custom designs.
2. For a torch symbol, for example, you could combine circles and lines. For a book, you can use rectangles.
3. Position these elements within the logo's base shape (circle, square, etc.).

#### **Step 5: Add Text (College Name or Initials)**

1. Select the Text Tool (T).
2. Choose a font that represents the college's identity (serif, sans-serif, or decorative fonts).
  - For academic institutions, use a strong, professional font.
3. Type the full college name or initials (depending on the logo design).
4. Adjust the font size, style, and colour to match the overall design. Typically, college logos have prominent text, so ensure the text is bold or easily readable.
5. Position the text within the logo shape, either at the top, centre, or bottom, based on your design.

#### **Step 6: Apply Gradients or Effects (Optional)**

1. If your logo includes gradients, select the shape layer, then:
  - Right-click on the layer and select Blending Options.
  - Choose Gradient Overlay and adjust the colours, style, and angle.

- For 3D effects or shadows, use the Drop Shadow or Inner Glow under Blending Options to give the logo depth.
- Experiment with effects to give the logo a unique look (such as embossing, bevel, or outer glow).

#### **Step 7: Refine the Logo Layout**

- Use the Move Tool (V) to adjust the position of shapes and text.
- Use the Align options to ensure all elements are properly centered or aligned in relation to each other (use the Align toolbar at the top of the workspace).
- Ensure the logo has a balanced and symmetrical design.

#### **Step 8: Add Additional Elements (Optional)**

- If the logo includes a motto or slogan, use the Text Tool (T) to add it in a smaller font size.
- Place the motto or slogan in a suitable location beneath the main logo.
- If needed, add decorative elements like lines, borders, or icons to complete the logo.

#### **Step 9: Finalize the Logo**

- Zoom in to inspect details and ensure that all elements are sharp and aligned properly.
- Remove any unwanted layers or extra elements that do not belong in the final design.
- If you need the logo to be scalable, ensure that it is created using vector shapes and text (instead of pixel-based images).

#### **Step 10: Save and Export the Logo**

- Save the project in PSD format to preserve layers for future edits.
- For final output, export the logo in a suitable format:
  - PNG (for transparency).
  - JPEG (for web use).
  - SVG (for vector graphics, if needed).
- Use the Save As option in Photoshop and choose the format you need for print, web, or branding use.

### **SAMPLE OUTPUT:**



**RESULT:**

Thus the college logo was designed and created successfully by using photoshop.

**EXP.NO:4**           **DESIGN A VISITING CARD USING PHOTOSHOP (FRONT-SIDE  
DATE:16.09.25       AND BACK-SIDE DESIGN)**

**AIM**

Design front and back sides of a visiting card of a person who is working in Birla soft solutions Chennai.

**ALGORITHM**

**1. Start Photoshop**

Open Adobe Photoshop and create a new project.

**2. Set Document Dimensions**

- o Go to File → New.
- o Set dimensions typically used for visiting cards:
  - Width: 3.5 inches
  - Height: 2 inches
  - Resolution: 300 DPI (for high-quality print)
  - Colour Mode: CMYK (for print).

**3. Create Background Layer**

- o Create a new layer named “Background.”
- o Use the Paint Bucket Tool or Gradient Tool to fill the background with a desired colour or gradient.

**4. Add a Logo**

- o Go to File → Place Embedded and insert the company logo.
- o Position and resize the logo using the Move Tool.

**5. Insert Company Name**

- o Select the Text Tool (T).
- o Click on the canvas and type the company name.
- o Choose an appropriate font, size, and colour in the text properties panel.
- o Position the text prominently.

**6. Add Contact Information**

- o Use the Text Tool (T) again to add the following details:
  - Name of the individual
  - Job title
  - Phone number
  - Email address
  - Website URL and Address
- o Align and format the text neatly.

**7. Add Design Elements**

- o Use the Shape Tool to add lines, borders, or icons for better visual appeal.
- o Apply shadows or effects using the Blending Options to enhance the design.

**8. Align and Adjust Layout**

- o Use the Move Tool to adjust the alignment and spacing of all elements.
- o Utilize the Guides and Grids for precise alignment.

**9. Review and Finalize Design**

- o Check for any spelling errors or misalignment.
- o Ensure that all layers are correctly named and organized.

**10. Export the Visiting Card**

- Go to File → Export → Export As.

- Choose JPEG or PDF for printing or sharing.
  - Save the file with appropriate settings for high-quality output.
11. End

**SAMPLE OUTPUT:**



**RESULT:**

Thus the visiting card was designed and created successfully by using photoshop.

## **AIM**

To design a professional Event Certificate in Adobe Photoshop using shapes, borders, text formatting, and image insertion tools.

## **PROCEDURE**

Step 1:

Open Adobe Photoshop → Go to File → New → Create a document of size A4 (2480 × 3508 px) with white background.

Step 2:

Use the Rectangle Shape Tool (U) to create an outer border around the page. Adjust stroke thickness and color (blue, gold, or any event theme color).

Step 3:

Insert the event logo / institution logo using File → Place Embedded. Resize it and place it either at the top center or top-left corner.

Step 4:

Use the Text Tool (T) to add the main heading:

"Certificate of Participation" / "Certificate of Achievement"

Increase the font size, center align, and apply layer styles like shadow or emboss if required.

Step 5:

Use the Text Tool (T) again to type the body content:

"This is to certify that \_\_\_\_\_ has successfully participated in the event  
\_\_\_\_\_ held on \_\_\_\_\_. "

Adjust font sizes, line spacing, and alignment.

Step 6:

Add signature lines, event coordinator name, organizing head, date, and seal/logo using the Text Tool and Line Tool.

Align everything neatly using the Move Tool (V).

Step 7:

Finalize the layout, check alignment, and apply decorative elements such as shapes or patterns if needed.

Save as PSD and export final certificate as JPEG/PDF.

**SAMPLE OUTPUT:**



**RESULT:**

Thus, the Event Certificate was successfully designed using Adobe Photoshop by applying borders, text formatting, image insertion, alignment tools, and decorative graphic elements.

**EXP.NO:7**  
**DATE:07.10.25**

## **TIMELINE & TRIMMING ADDING, ARRANGING, AND TRIMMING VIDEO CLIPS, IMAGES, AND AUDIO TRACKS USING CANVA TOOLS.**

### **AIM**

To perform trimming, adding, and arranging audio and video tools in CANVA tool. Create a short film too.

### **ALGORITHM**

#### **Step 1: Create a New Video Project**

##### **1. Open Canva:**

- Go to Canva and log in to your account.

##### **2. Create a New Design:**

- Click on the Create a designbutton on the top right corner.
- Select Videofrom the dropdown menu to start a new video project.

#### **Step 2: Add Video Clips, Images, and Audio Tracks**

##### **1. Upload Media:**

- Click on the Uploadstab on the left sidebar.
- Click on Upload mediaand select the video clips, images, and audio tracks you want to use from your device.

##### **2. Add Media to Timeline:**

- Drag and drop the uploaded video clips, images, and audio tracks onto the timeline at the bottom of the screen.

#### **Step 3: Arranging Video Clips and Images**

##### **• Arrange Clips and Images:**

- Drag the video clips and images along the timeline to arrange them in the order you want them to appear.

##### **2. Adjust Duration:**

- Click on an image or video clip on the timeline.
- Drag the edges of the clip to adjust its duration on the timeline.

#### **Step 4: Trimming Video Clips**

##### **• Select the Clip:**

- Click on the video clip on the timeline that you want to trim.

##### **2. Trim the Clip:**

- Click on the scissors icon (Trim) that appears on the toolbar above the timeline.
- Drag the handles on either side of the video clip to trim the start or end of the clip.
- Click Donewhen you are satisfied with the trim.

#### **Step 5: Adding and Arranging Audio Tracks**

##### **1. Add Audio:**

- Go to the Musictab on the left sidebar to access Canva's music library, or upload your own audio under the Uploadstab.

- Drag and drop the audio track onto the timeline.

##### **2. Arrange Audio:**

- Drag the audio track along the timeline to sync it with the video clips and images.

##### **3. Adjust Audio Length:**

- Click on the audio track on the timeline.

- Drag the edges of the audio track to adjust its duration.
- Trim the audio using the same method as trimming video clips.

### **Step 6: Preview and Fine-Tune**

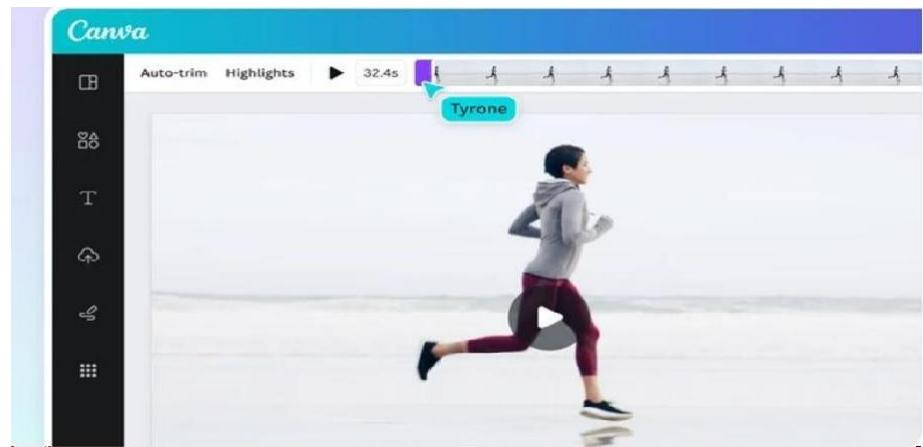
- 1. Preview Your Video:**
  - Click the play button above the timeline to preview your video.
  - Make sure the transitions between clips are smooth and the audio is synced correctly.
- 2. Fine-Tune:**
  - Adjust the positions of clips, images, and audio as needed.
  - Use additional tools like transitions, text, and effects to enhance your video.

### **Step 7: Export Your Video**

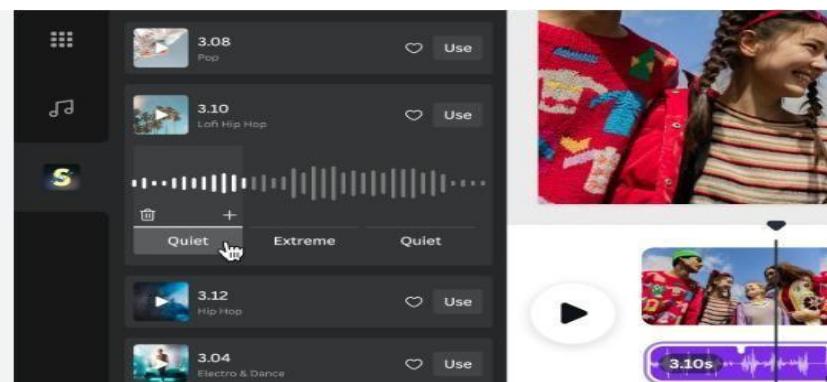
- 1. Export:**
  - Once you are satisfied with your video, click on the Downloadbutton in the top right corner.
  - Select the desired video quality and click Downloadto export your video.

### **SAMPLE OUTPUT:**

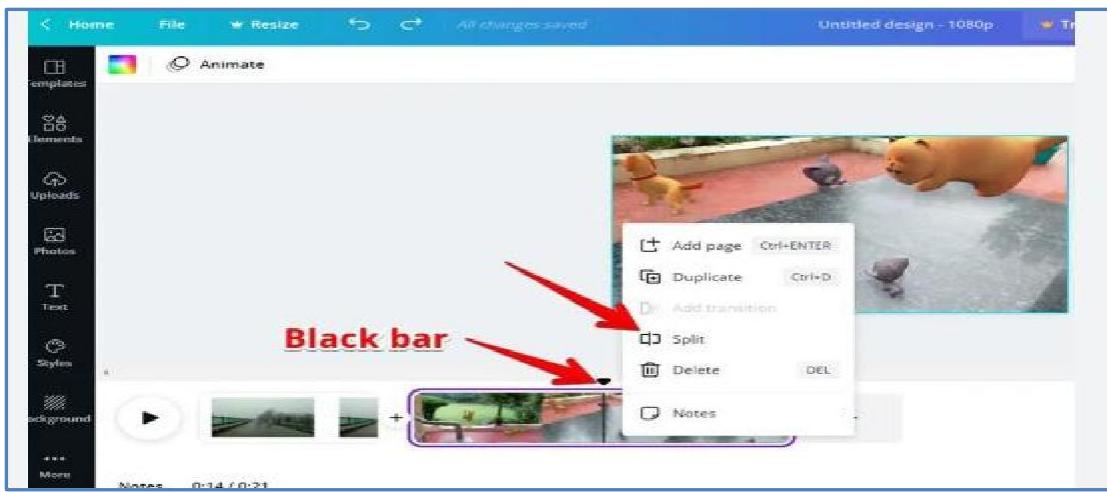
**Trim videos online to its right length**



**Add Music To Video: Add Audio, Songs & More | Canva**



## Split and splice your videos



## RESULT

Thus, various audio and video editing operations using CANVA tool are executed and a short film was created.

**AIM**

To design a Poster and Resume Using Canva

**ALGORITHM**

**STEPS FOR TO DESIGN A POSTER USING CANVA:**

Step 1: Go to Canva's website or open the Canva app.  
Log in or sign up for a free account if not already done.

Step 2: Choose Template

Search for "Event Poster" or "Banner" in the template search bar. Select a template that matches your theme or event style.

Step 3: Set Dimensions

Click Custom Size if a specific size is needed (e.g., 1080x1920 px for posters). Open the template editor.

Step 4: Add Event Details

Use Text Tool to add:

Event Name (e.g., Symposium on AI Innovations). Date, Time, and Venue.  
Call to Action (e.g., "Register Now" or "Join Us").

Step 5: Customize Design

Change Background:

Use a solid color, gradient, or image that complements the event theme. Add Elements:

Use shapes, lines, or frames to highlight sections. Upload Images/Logos:

Add the event logo, sponsor logos, or relevant graphics.

Step 6: Enhance Visual Appeal

Use Canva's library to add icons or illustrations (e.g., tech symbols for a symposium). Adjust fonts, colors, and alignments for readability and aesthetics.

Step 7: Finalize the Design

Preview the poster or banner to check for alignment, spelling, and visual balance. Make adjustments if necessary.

Step 8: Save and Export

Save the design on Canva.

Download the file in the desired format (e.g., PNG for digital use, PDF for printing).

Step 9: Share or Print

Share the design directly from Canva via email or social media. Print the design if needed for offline use.

**SAMPLE OUTPUT:**



## STEPS FOR TO CREATE RESUME USING CANVA:

### **Step 1: Open Canva**

1. Visit Canva or launch the Canva app.
2. Log in or create an account if you don't have one.

### **Step 2: Search for Resume Templates**

1. Type "Resume" in the search bar.
2. Browse through various templates and select one that matches your style and professional field.

### **Step 3: Set Up the Template**

1. Click on the chosen template to open it in the editor.
2. Adjust the layout dimensions if required (e.g., A4 size for standard resumes).

### **Step 4: Add Personal Details**

1. Replace placeholder text with your:
  - Full Name.
  - Contact Information (email, phone number, LinkedIn profile, etc.).
  - Professional Photo (optional but preferred in certain industries).

### **Step 5: Add Career Objective**

1. Write a concise career objective or professional summary highlighting your goals and skills.

### **Step 6: Fill in Education Details**

1. Add your educational qualifications in reverse chronological order:
  - Degree, Institution, Year of Graduation, and Key Achievements.

### **Step 7: Add Work Experience**

1. List your work experience in reverse chronological order:
  - Job Title, Company Name, Duration, and Key Responsibilities.
2. Use bullet points to describe achievements clearly.

### **Step 8: Highlight Skills**

1. Use icons or sections to list both technical and soft skills relevant to your field.
2. Include proficiency levels (e.g., Beginner, Intermediate, Expert).

### **Step 9: Add Certifications and Achievements**

1. Create a separate section for certifications (e.g., "AWS Certified Solutions Architect").
2. Mention relevant awards or achievements.

### **Step 10: Customize Design**

1. Adjust colours, fonts, and alignments for consistency and readability.
2. Replace icons or visuals to align with your profession (e.g., tech symbols for IT).

### **Step 11: Proofread and Finalize**

1. Check for grammatical errors, formatting issues, and typos.
2. Preview the resume to ensure all information is accurate and visually appealing.

### **Step 12: Download the Resume**

1. Save your design on Canva.
2. Download the resume in a professional format like PDF.

### **Step 13: Share or Print**

1. Share the resume digitally or print it for physical applications.

## SAMPLE OUTPUT:



## ABOUT ME

I consider my self a responsible and motivated person .  
I am looking forward to my first work experience .

## LANGUAGE

- English

# AVANTHIKA

Student

## EDUCATION

PANIMALAR ENGINEERING COLLEGE :  
Artificial Intelligence and Data Science career,in progress

## My Skills

Text processor ♦♦♦♦ Good Communiucation♦♦♦♦

Problem solving ♦♦♦♦ Programmer ♦♦♦♦

## Contact

📞 : 9123456781

✉️ : avanthika1231@gmail.com

📍 : 123 kk nagar,  
chennai-600002

**RESULT:**

Thus the poster and resume was prepared in a professional way using Canva tools.

**AIM**

Create LinkedIn profile of the individual candidate and upload online certificates in your LinkedIn profile to showcase your professional achievements. (4 online certification courses must be completed in order to upload in LinkedIn profile)

**ALGORITHM**

**Step 1: Visit LinkedIn**

Open LinkedIn or download the LinkedIn app. Sign up or log in if you already have an account.

**Step 2: Complete Basic Profile Details**

Enter your Name, Email, and Password to create an account. Add your location, job role, or select Student.

Confirm your email to verify the account.

**Step 3: Build Your Profile**

Upload a professional profile photo.

Write a headline summarizing your expertise (e.g., "Software Engineer | Certified AWS Developer"). Add an About Section to introduce yourself, highlighting skills and career objectives.

**Step 4: Add Certifications**

Go to the Licenses & Certifications section in your profile. Click Add Certification and enter: Certification Name (e.g., "AWS Certified Solutions Architect"). Issuing Organization (e.g., "Amazon Web Services").

Issue and Expiry Dates (if applicable).

Credential ID and URL (optional but recommended). Repeat for all relevant certifications.

**Step 5: Add Other Sections**

Fill in Work Experience with job roles, responsibilities, and achievements. Add Education with details of institutions, degrees, and years.

Include Skills related to your field and get endorsements from connections.

**Step 6: Customize Profile**

Edit your LinkedIn URL for a professional touch (e.g., [linkedin.com/in/yourname](https://linkedin.com/in/yourname)). Add a banner image related to your profession or achievements.

**Step 7: Connect with Professionals**

Search for colleagues, mentors, or peers and send connection requests. Join relevant LinkedIn groups to expand your network.

## Step 8: Share and Engage

Share updates about your certifications and achievements. Comment on and engage with posts in your domain.

### SAMPLE OUTPUT:

The screenshot shows a LinkedIn profile page for a user named Avanthika A. At the top, there is a circular profile picture placeholder with a plus sign, a camera icon, and a pencil icon. Below the profile picture, the name "Avanthika A" is displayed with a blue "Add verification badge" button next to it. The user has attended Panimalar Engineering College, located in Chennai, Tamil Nadu, India. There are 4 connections listed, with buttons to "Open to", "Add section", and more options. A prominent "Enhance profile" button is visible. A notification box encourages the user to show they are open to work. The "Suggested for you" section features a camera icon and a call to action to add a profile photo, stating that members with a photo receive up to 2.3 times as many profile views. An "Add photo" button is present.

Avanthika A [Add verification badge](#)

Attended Panimalar Engineering College

Panimalar Engineering College  
Chennai, Tamil Nadu, India

4 connections

Open to [Add section](#) ...

[Enhance profile](#)

Show recruiters you're open to work – you control who sees this. [Get started](#)

**Suggested for you**

Private to you

Add a profile photo to help others recognize you

Members with a profile photo receive up to 2.3 times as many profile views.

[Add photo](#)

**RESULT:**

Thus, my LinkedIn profile was created and online course certifications are uploaded in my LinkedIn profile.

**AIM**

To learn the basic tools of ChatGPT and practice giving text-based inputs to the model while clearly expressing what you want it to find or generate.

**ALGORITHM**

**Step 1: Understanding ChatGPT**

**1. Definition**

ChatGPT is an AI language model created by OpenAI that generates human-like text based on the user's input.

**2. Capabilities**

It can answer questions, explain concepts, create content, translate languages, summarize text, and more.

**3. Purpose**

Supports learning, research, creativity, programming, and problem-solving through natural language.

**4. Interaction Style**

Works through conversational text where you type and receive responses.

**5. Output Variety**

ChatGPT can produce informative, creative, technical, or step-based responses depending on your request.

**Step 2: Accessing ChatGPT**

**1. Platforms**

You can use ChatGPT through OpenAI's website, supported apps, third-party chatbots, or API integrations.

**2. Account Requirement**

Some platforms may require you to log in or create an account.

**3. Device Compatibility**

Accessible on computers, tablets, or mobile phones.

**4. Internet Access**

A stable internet connection is required for using the service.

**5. Interface Overview**

- o Typically includes a chat window and a text input box for entering prompts.

**Step 3: Providing Text to ChatGPT**

**1. Starting a Session**

Open the ChatGPT interface on your chosen platform.

**2. Entering Your Query**

Type your question or instruction clearly in the input box.

**3. Being Specific**

Write a focused prompt to get accurate results.

*Example:* "What are the benefits of regular exercise?"

**4. Task Orientation**

You may ask for definitions, summaries, explanations, or creative responses.

**5. Submission**

Press send/enter to receive the model's response.

**Step 4: Telling ChatGPT What You're Looking For**

**1. State Your Requirement Clearly**

Mention exactly what output you expect.

*Example:* “Give me a short summary of the benefits of regular exercise.”

## Add Context When Needed

Provide background if the task is detailed or specific.

*Example:* “I need the summary for a presentation. Keep it short and informative.”

### 2. Tone or Format Preference

You can request a tone such as formal, simple, friendly, or professional.

### 3. Output Length

Specify if you need a short list, paragraph, or long explanation.

### 4. Purpose

Mention why you need it to help ChatGPT tailor the response.

## Step 5: Refining and Interacting

### 1. Review the Output

Read the response carefully to see if it meets your requirements.

### 2. Ask Follow-ups

Request additional details or ask for a revised version.

*Example:* “Can you list only the mental health benefits?”

### 3. Clarify Needs

If the answer is too general, ask ChatGPT to be more specific.

### 4. Try Rewriting

Ask the model to rephrase or restructure the response.

### 5. Iterative Improvement

Continue adjusting prompts until you receive the desired output.

## Step 6: Performing Specific Tasks with ChatGPT

### 1. Text Generation

Ask ChatGPT to write essays, emails, speeches, stories, etc.

*Example:* “Write a motivational speech on perseverance.”

### 2. Summarization

Paste a passage and ask for a brief summary.

*Example:* “Summarize this article on climate change in 100 words.”

### 3. Direct Answers

Ask factual questions.

*Example:* “What is the capital of France?”

### 4. Explanations

Request simplified or technical explanations.

*Example:* “Explain the theory of relativity in simple words.”

### 5. Problem Solving

Ask for steps, procedures, or methods for various tasks.

## Step 7: Using Advanced Features

### 1. Custom Response Style

In certain platforms, you can control tone, length, and structure.

*Example:* “Explain the benefits of exercise in a professional tone.”

### 2. API Integration

Developers can use the OpenAI API to embed ChatGPT into applications.

### 3. Automation

ChatGPT can automate writing, summarizing, or analysis tasks.

### 4. Plugins / Tools (if available)

Some versions support browsing, file handling, or code interpretation.

### 5. Multi-step Workflows

You can guide ChatGPT through complex, multi-part tasks.

## Step 8: Practice and Experiment

### 1. Regular Usage

Frequent interaction helps you understand how to frame better prompts.

### 2. Try Different Prompt Styles

Experiment with questions, descriptions, instructions, and creative prompts.

### 3. Evaluate Responses

Compare how different prompts produce different results.

### 4. Explore Capabilities

Test summarization, translation, idea generation, and more.

### 5. Learn Limitations

Understand what ChatGPT can and cannot do to improve efficiency.

## SAMPLE OUTPUT:

The screenshot shows a dark-themed ChatGPT interface. At the top, there's a navigation bar with 'ChatGPT' and other user options like 'Share' and 'Add people'. Below the bar, a text input field contains the prompt: 'please provide a summary of the benefits of diet chart'. The main area displays a generated response:

Here is a simple and clear summary of the benefits of following a diet chart:

- Summary of Benefits of a Diet Chart
  - 1. Helps maintain a balanced diet  
A diet chart ensures you eat the right amount of proteins, carbs, fats, vitamins, and minerals every day.
  - 2. Supports weight management  
It helps in controlling portion size, reducing overeating, and maintaining or reducing weight based on your goal.
  - 3. Improves digestion  
Eating planned meals at the right time improves digestion and reduces problems like acidity and bloating.
  - 4. Boosts overall health  
A healthy diet chart lowers the risk of lifestyle diseases such as diabetes, obesity, heart problems, and high BP.
  - 5. Increases energy levels  
Proper nutrient intake keeps you active, reduces drowsiness, and improves concentration.
  - 6. Builds healthy eating habits

At the bottom, there's a footer with a 'Ask anything' button and a microphone icon.

## **RESULT:**

Thus, the basic usage of ChatGPT was learned successfully, and various prompts were tested to observe how the model responds.

## **AIM**

To explore how ChatGPT responds to various types of prompts. Students will experiment with questions, conversations, and incomplete statements to understand how prompt style influences AI outputs.

## **PROCEDURE:**

### **Example Prompt:**

"You are a knowledgeable AI. Please answer the following question: What is the capital of England?"

## **Prompt Engineering**

Prompt engineering is the process of crafting and refining the input text (prompt) provided to an AI model like ChatGPT. It helps generate accurate, meaningful, and creative responses. As AI becomes an essential part of modern technology, prompt engineering has emerged as an important skill for achieving precise results from AI systems.

This concept focuses on understanding how to guide the model effectively by giving clear instructions, defining context, and specifying the desired output.

### **Example:**

Poor prompt: "Write something about AI."

Improved prompt: "Write a 100-word paragraph explaining AI to high school students."

## **Uses of Prompt Engineering**

- Enhances the quality of AI-generated responses.
- Helps obtain focused and specific output.
- Supports tasks like chatbots, programming assistance, and content creation.

## **What are Prompts?**

Prompts are short text inputs that provide context or instructions to an AI model. In natural language processing (NLP), prompts guide models to generate responses aligned with the user's intent.

### **Prompts help by:**

- Giving clear direction to the model.
- Avoiding overly general input.
- Preventing excess or confusing information.
- Clarifying the purpose and context of the task.

## **Importance of prompt engineering:**

- Well-structured prompts improve the model's understanding of task requirements.
- Detailed instructions help generate output closer to the expected result.
- Effective prompts lead to better performance in NLP applications and provide improved training patterns for future tasks.

## **TYPES OF PROMPTS WITH EXAMPLES**

### **1. Direct Questions**

#### **Factual:**

- “What is the capital of Japan?”
- “Who wrote Pride and Prejudice?”

#### **Conceptual:**

- “Explain the theory of evolution.”
- “What causes climate change?”

### **2. Conversation Starters**

#### **Casual:**

- “Hi! How is your day going?”
- “What are the latest technology trends?”

#### **Debates:**

- “Has technology improved our lives or complicated them?”
- “Which is better—working from home or office?”

### **3. Incomplete Sentences**

- “The most important quality in a leader is...”
- “If I could visit any place in the world, I would go to...”

### **4. Creative Writing Prompts**

#### **Story:**

- “Once upon a time, in a distant land...”
- “The spaceship landed on an unknown planet. The first thing they noticed was...”

#### **Poetry:**

- “Write a poem about the changing seasons.”
- “Create a haiku on the ocean.”

### **5. Instruction / How-To Prompts**

- “How do I bake a chocolate cake?”

- “Explain how to set up a home Wi-Fi network.”

## **6. Opinion-Based Prompts**

### **Preferences:**

- “Which book do you like the most, and why?”
- “Do you prefer cats or dogs?”

### **Hypothetical:**

- “If you had a superpower, what would it be?”
- “If you were president for one day, what would you change first?”

## **7. Summarization / Paraphrasing**

### **Summarization:**

- “Summarize the plot of To Kill a Mockingbird.”
- “Summarize the main ideas of the climate change article.”

### **Paraphrasing:**

- “Paraphrase: ‘The quick brown fox jumps over the lazy dog.’”
- “Rewrite this paragraph in simpler words.”

## **8. Translation**

- “Translate this to French: ‘Good morning, how are you?’”
- “How do you say ‘thank you’ in Japanese?”

## **9. Technical and Academic Prompts**

### **Technical:**

- “Differentiate between HTTP and HTTPS.”
- “What is blockchain and how does it work?”

### **Academic:**

- “What are the themes in Shakespeare’s Hamlet?”
- “Explain how the Industrial Revolution changed society.”

## Experimenting with Prompts

Try changing your prompts to observe differences in ChatGPT's responses.

### 1. Varying Detail

Simple: "Tell me about photosynthesis."

Detailed: "Describe photosynthesis with roles of chlorophyll, sunlight, CO<sub>2</sub>, and water."

### 2. Creative vs Informative

Creative: "Write a story about a magical forest."

Informative: "List the components of a healthy ecosystem."

### 3. Open-Ended vs Specific

Open-ended: "What do you think about artificial intelligence?"

Specific: "What are the ethical issues of using AI in healthcare?"

## Tips for Effective Prompt Engineering

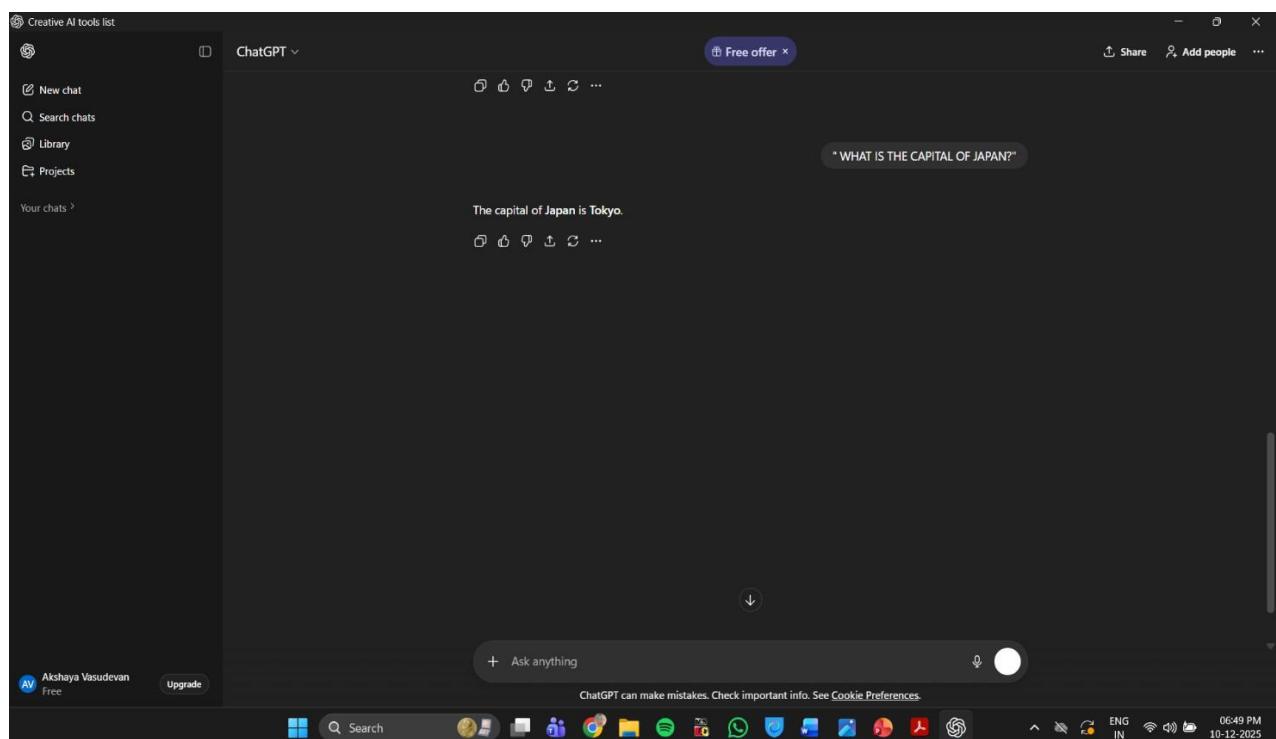
**Clarity:** Write clear and easy-to-understand prompts.

**Specificity:** The more precise the prompt, the better the result.

**Context:** Give enough background for complex tasks.

**Iteration:** Keep refining your prompt until the output meets your needs.

## SAMPLE OUTPUT:



**RESULT:**

Thus, the principles of prompt engineering were understood and successfully applied.

**AIM**

To develop creative writing skills by using ChatGPT to generate ideas, improve narratives, and enhance imagination through AI-assisted writing.

**PROCEDURE**

1. Open ChatGPT in your browser.
2. Decide the type of creative writing you want (story, poem, dialogue, script, essay, etc.).
3. Write a clear prompt to ChatGPT describing:
  - Theme or topic
  - Characters (optional)
  - Tone or style
  - Length
4. Ask ChatGPT to generate a draft.
5. Review the output and refine it by asking:
  - “Make it shorter/longer.”
  - “Change tone to funny/sad/adventurous.”
  - “Add more emotions/characters.”
6. Edit the final content for personal creativity and originality.
7. Save or present the final creative piece.

**SAMPLE EXAMPLE**

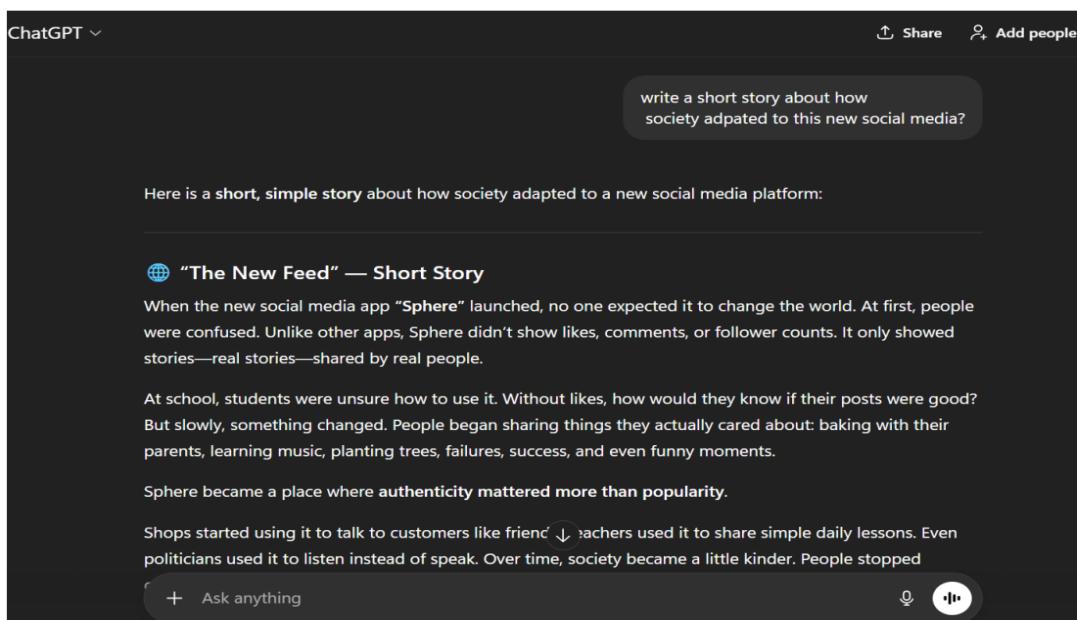
**Prompt given to ChatGPT:**

“Write a short story about a magical pen that can change the future.”

**ChatGPT Output (Story):**

A young girl named Meera found a glowing pen in her school library. Whatever she wrote with it became real the next day. At first she used it to help friends—better grades, sunny picnics, and repaired friendships. But when she tried to change her own future too much, the pen stopped glowing. It taught her that the future should be shaped by effort, not shortcuts. Meera kept the pen safely as a reminder that real magic lies in hard work.

**SAMPLE OUTPUT:**



The screenshot shows the ChatGPT web interface. At the top, there's a dropdown menu labeled "ChatGPT" and icons for "Share" and "Add people". In the main input field, the prompt "write a short story about how society adapted to this new social media?" is entered. Below the input field, the generated story begins with "Here is a short, simple story about how society adapted to a new social media platform:". The story is titled "🌐 ‘The New Feed’ — Short Story" and starts with: "When the new social media app ‘Sphere’ launched, no one expected it to change the world. At first, people were confused. Unlike other apps, Sphere didn't show likes, comments, or follower counts. It only showed stories—real stories—shared by real people." It continues to describe how the app changed society, mentioning schools, parents, and politicians using it. The story ends with "Sphere became a place where authenticity mattered more than popularity." and "Shops started using it to talk to customers like friend' ↓ teachers used it to share simple daily lessons. Even politicians used it to listen instead of speak. Over time, society became a little kinder. People stopped". At the bottom of the interface, there's a button "+ Ask anything" and a microphone icon for voice input.

**RESULT:**

Thus, creative writing using ChatGPT was successfully learned, and the student understood how to generate ideas, improve content, and create engaging stories with AI assistance.

## **AIM**

To create a local Git repository and set up a remote repository on GitHub for team collaboration.

## **INTRODUCTION**

Git is a version control tool used to track changes in code and manage collaborative development. A GitHub repository (commonly called a **repo**) is an online storage space where project files and their revision history are maintained. It uses Git to record changes, manage versions, and allow multiple developers to work together efficiently.

### **Key Features of a GitHub Repository**

1. **Version Control:** Records all changes, enabling you to review or revert to previous versions when necessary.
2. **Collaboration:** Allows multiple developers to work on the same project. Contributors can fork, edit, and submit pull requests.
3. **Branches:** Supports independent development lines for features, bug fixes, or experiments which can later be merged into the main branch.
4. **Issues:** Used for tracking bugs, feature enhancements, and general project tasks.
5. **Pull Requests:** Enables code review and discussion before integrating changes into the main branch.
6. **GitHub Actions:** Automates tasks such as running tests or deploying code directly from the repository.

## **ALGORITHM**

### **Step 1: Install and Configure Git**

#### **1. Install Git**

Download and install Git (e.g., Git for Windows).

#### **2. Configure Git**

Open a terminal or command prompt and set your username and email:

```
git config --global user.name "Your Name"  
git config --global user.email "your-email@example.com"
```

### **Step 2: Create a GitHub Repository**

1. **Sign In to GitHub:** Log in to your GitHub account or create one if you don't have it.
2. **Create a New Repository:**

- Click the “+” icon → **New repository**
- Enter the repository name and optional description
- Choose **public** or **private** visibility
- Optionally initialize with a README
- Click **Create repository**

### **Step 3: Set Up the Repository Locally**

#### **1. Clone the Repository:**

Navigate to your desired folder and run:

```
git clone https://github.com/your-username/your-repository.git
```

Replace *your-username* and *your-repository* with actual details.

#### **2. Enter the Repository Folder:**

```
cd your-repository
```

### **Step 4: Add Team Members**

1. Open your repository on GitHub.
2. Go to **Settings → Collaborators & teams**.
3. Click **Invite a collaborator**, enter their GitHub username or email, and send the invitation.

### **Step 5: Collaborate Using Git**

- **Make Changes:** Create or edit files in your local repo.
- **Stage Changes:**

```
git add .
```

- **Commit Changes:**

```
git commit -m "Your commit message"
```

- **Push to GitHub:**

```
git push origin main
```

*(Replace main if your default branch has another name.)*

- **Pull Latest Changes:**

```
git pull origin main
```

### **Additional Tips**

- **Branching:**

Create separate branches for features or fixes:

```
git checkout -b feature-branch
```

- **Merging:**

```
git checkout main  
git merge feature-branch
```

- **Handling Conflicts:**

If Git reports merge conflicts, manually edit the files to resolve differences.

## SAMPLE OUTPUT:

Set up Github repository - signup in github.com and create a new repository

### Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Required fields are marked with an asterisk (\*).

Owner \*      Repository name \*



/

Great repository names are short and memorable. Need inspiration? How about [fuzzy-doodle](#) ?

Description (optional)

Public

Anyone on the internet can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with:

Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

## create a remote repository in github

The screenshot shows the GitHub repository creation interface. At the top, there's a navigation bar with links for Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation, the repository name 'remote' is shown, along with 'Public' status, 'Unwatch 1', 'Fork 0', and 'Star 0'. There are two main sections: 'Set up GitHub Copilot' (with a 'Get started with GitHub Copilot' button) and 'Add collaborators to this repository' (with a 'Invite collaborators' button). A large blue box at the bottom left provides 'Quick setup — if you've done this kind of thing before', offering options to 'Set up in Desktop' (via HTTPS or SSH), or providing the URL <https://github.com/23ES1114/remote.git>. It also suggests creating a new file or uploading an existing one, and recommends including a README, LICENSE, and .gitignore. Another section below shows command-line instructions for creating a new repository:

```
echo "# remote" >> README.md
git init
git add README.md
git commit -m "first commit"
```

## create a file called HELLO.txt

The screenshot shows a GitHub repository interface. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, a search bar contains the text 'Type ⌘ to search'. To the right of the search bar are several icons: a plus sign, a zero, a double arrow, a square, and a gear. The main area shows a file named 'HELLO' in the 'remote /' directory, specifically in the 'main' branch. The file content is a single line: '1 HELLO WELCOME TO PANINALAR ENGINEERING COLLEGE'. There are buttons for 'Edit' and 'Preview' at the top of the code editor, and a note 'Code 55% faster with GitHub Copilot'. On the right side of the code editor, there are buttons for 'Spaces', '2', and 'No wrap'. At the bottom right of the code editor, there are buttons for 'Cancel changes' and 'Commit changes...'.

## commit changes

The screenshot shows the GitHub commit history. A commit titled 'Create HELLO' was made by the user '23ES1114' on '8366b19 · now'. The commit message is 'Create HELLO'. The commit details show a table with columns for Name, Last commit message, and Last commit date. The commit is listed under the 'main' branch, with a 'remote /' link. There are buttons for 'Go to file', 'Add file', and three dots. The commit is also linked to a 'History' page.

## Setup Git repository in your local system

Download git in your local system

### Download for Windows

[Click here to download](#) the latest (2.47.1) 64-bit version of **Git for Windows**. This is the most recent maintained build. It was released 7 days ago, on 2024-11-25.

#### Other Git for Windows downloads

**Standalone Installer**

[32-bit Git for Windows Setup](#).

[64-bit Git for Windows Setup](#).

**Portable ("thumbdrive edition")**

[32-bit Git for Windows Portable](#).

[64-bit Git for Windows Portable](#).

#### Using winget tool

Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git --source winget
```

The current source code release is version 2.47.1. If you want the newer version, you can build it from the source code.

#### Now What?

Now that you have downloaded Git, it's time to start using it.

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**Now type the following commands //means comment statement**

```
$ git init //Initialize empty Git repository in C:/Users/abcd/.git/  
$ git version '/git version 2.47.1.windows.1  
$ git config --global user.name "23ES1114"  
$ git config --global user.mail "innovativepractice966@gmail.com"  
$ cd git //open C drive, where git directory already created
```

```
$ git clone https://github.com/23ES1114/remote.git  
Cloning into 'remote'...  
remote: Enumerating objects: 3, done.  
remote: Counting objects: 100% (3/3), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)  
Receiving objects: 100% (3/3), done.
```

```
$ dir  
remote
```

```
$ cd remote
```

```
$ dir //Notice a file "HELLO.txt" in remote repository is copied in local repository  
HELLO.txt
```

Now create a file called WELCOME.txt in the local Git repository

```
$ dir  
HELLO WELCOME.txt
```

```
$ git fetch // it downloads commits, files from a remote repository to local repository
```

```
$ git status //provides a summary of the current state of your Git repository.
```

**output**

On branch main

Your branch is up to date with 'origin/main'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

WELCOME.txt

nothing added to commit but untracked files present (use "git add" to track)

```
$ git add WELCOME.txt //adds new files in your working directory to the Git staging area.
```

```
$ git commit -m "save" //you can use any word instead of save
```

**output**

[main 36b4654] save

1 file changed, 1 insertion(+)

create mode 100644 WELCOME.txt

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## git push command

is used to **upload your local repository content to a remote repository**. It transfers commits from your local branch to a corresponding branch on the remote

### now type

```
$ git push origin main
```

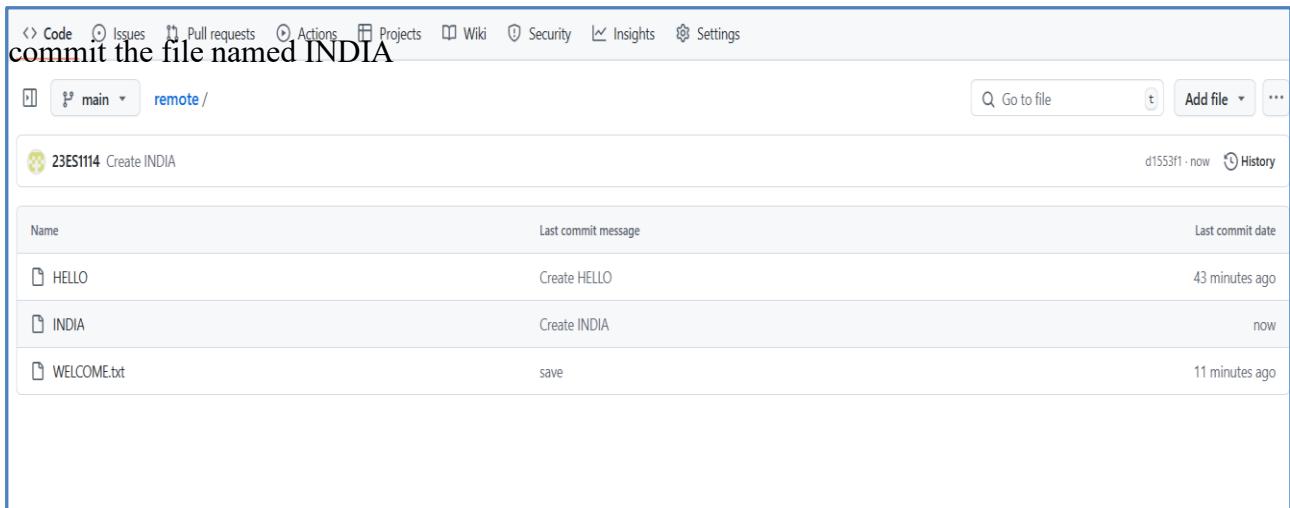
Now we can notice the WELCOME.txt is uploaded in remote repository

The screenshot shows a GitHub repository page for '23ES1114 / remote'. The repository is public and has one branch, 'main', with one commit. The commit was made by 'umaranisrikanth28340017' and contains two files: 'HELLO' and 'WELCOME.txt'. The 'WELCOME.txt' file was saved 7 minutes ago. There is a section to 'Add a README'.

create a new text file named “INDIA” in github

The screenshot shows a GitHub code editor for the 'remote' branch of the '23ES1114 / remote' repository. A new file named 'INDIA' is being created. The editor shows the text 'I LOVE MY COUNTRY INDIA'. There are buttons for 'Edit', 'Preview', and 'Commit changes...'.

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A screenshot of a GitHub repository page. At the top, there are navigation links: Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the header, the repository name is "commit the file named INDIA". A dropdown menu shows "main" and "remote /". On the right, there is a search bar with "Go to file" and a "Add file" button. A "History" link is also present. The main area displays a list of files:

| Name        | Last commit message | Last commit date |
|-------------|---------------------|------------------|
| HELLO       | Create HELLO        | 43 minutes ago   |
| INDIA       | Create INDIA        | now              |
| WELCOME.txt | Save                | 11 minutes ago   |

### git pull command

downloads new code from the branch named master on the remote named origin and integrates them into your local HEAD branch

**\$ git pull origin main**

#### output

```
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 971 bytes | 69.00 KiB/s, done.
From https://github.com/23ES1114/remote
 * branch      main    -> FETCH_HEAD
   36b4654..d1553f1  main    -> origin/main
Updating 36b4654..d1553f1
Fast-forward
 INDIA | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 INDIA
```

**\$ dir**

HELLO INDIA WELCOME.txt

Now we could find the file INDIA found in local repository.

### RESULT:

Thus, GIT repository and repository in a GitHub for a team have been implemented and executed successfully.

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**EXP.NO:14**  
**DATE:18.11.25**

**CNC PROGRAMMING FOR CNC LATHE AND  
MILLING .**

To demonstrate CNC programming for CNC lathe and Milling machines.

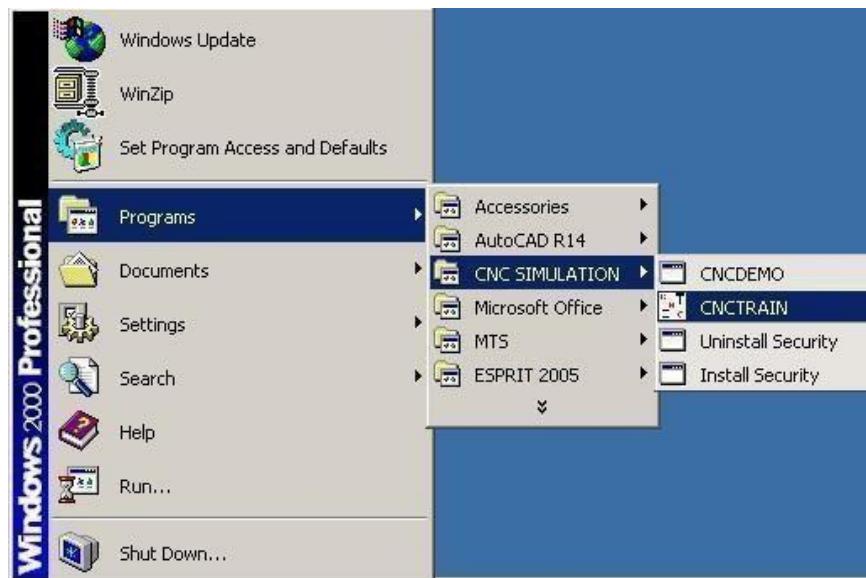
**Equipment's Required:** CNC TRAIN software and CNC machines

**ALGORITHM**

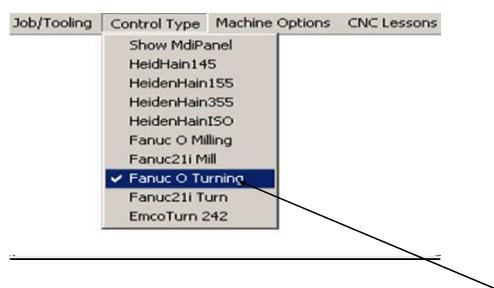
The different steps involved in using the CNC TRAIN software are as follows:

**Step 1: Click Start menu -**

Programs - CNC simulation - CNCTRAIN (or) Double click icon on the desktop



**Step 2: Selection of controller type**

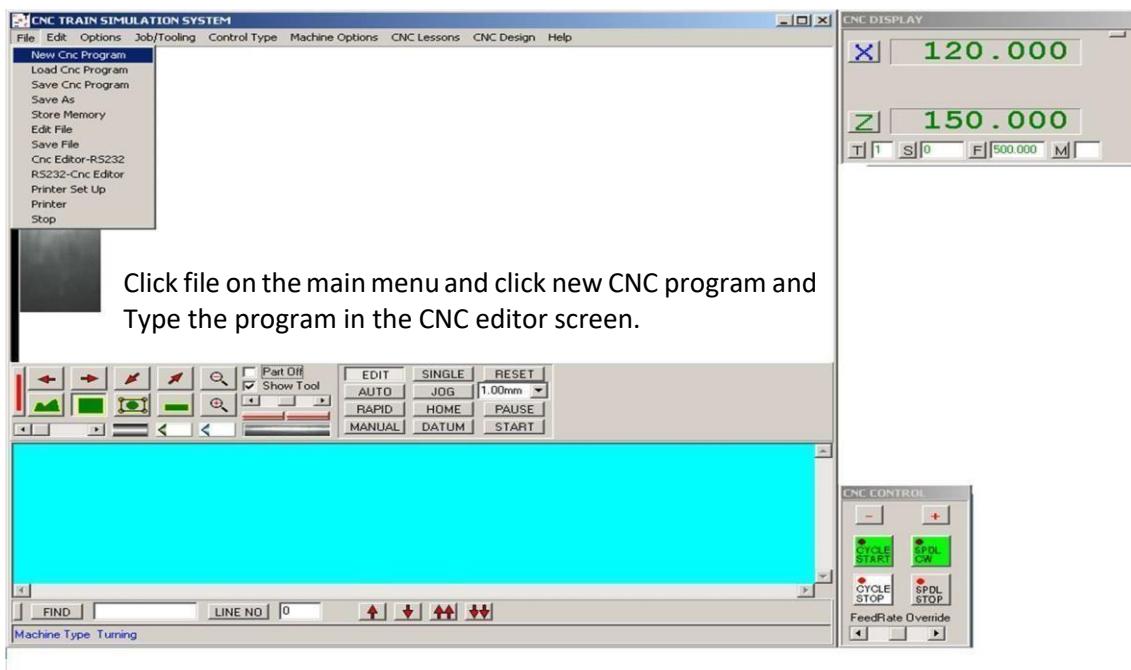


Click Control Type

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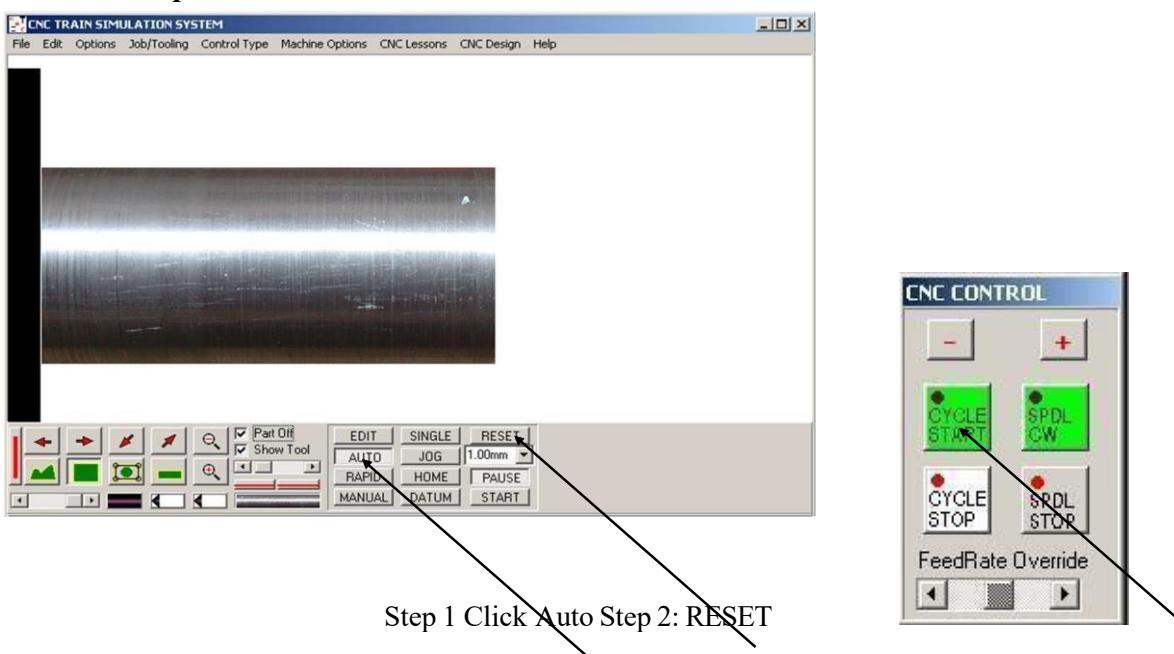
**Step 3: Write a new program.**

Click file on the main menu and click new CNC program and type the program in the CNC editor screen.



Click file on the main menu and click new CNC program and Type the program in the CNC editor screen.

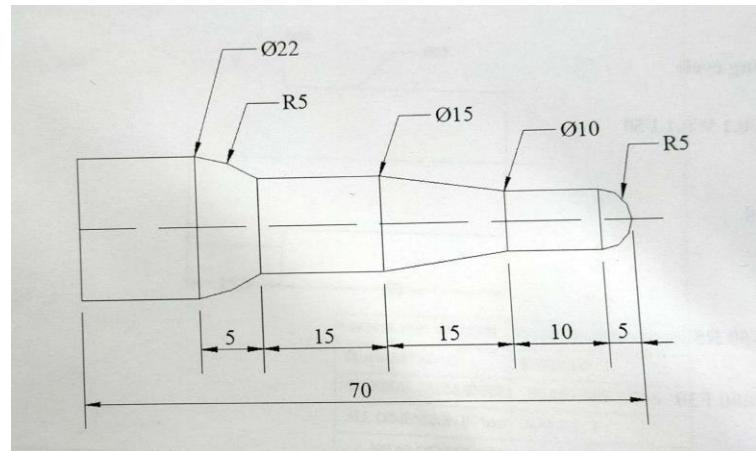
**Step 4: Simulation**



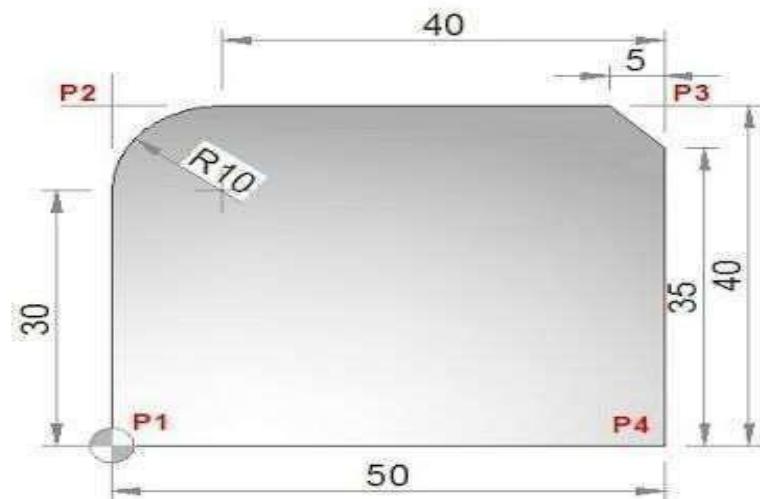
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Step 3 Click Cycle start

**Observations:** Carry out the simulations of the following parts in CNC TRAIN software.



Turning Exercise



Milling Exercise

## RESULT

Thus, CNC programming for CNC Lathe and Milling was demonstrated.

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**ROLL NO:2025PECAI131**

**NAME:AVANTHIKA.A**

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**EXP.NO:15**  
**DATE:18.11.25**

**3D PRINTING USING FUSION 360**

**AIM**

Design of 3D printing using Fusion 360 and product development.

**ALGORITHM**

**Step 1: Design Conceptualization**

1. **Sketching:** Begin by sketching out your design idea. Fusion 360 provides a robust sketching environment where you can create 2D profiles that will later be extruded or revolved into 3D shapes.
2. **Constraints and Dimensions:** Use dimensions and constraints to define the size and relationships between different parts of your design. This ensures accuracy and helps in making modifications later.

**Step 2: 3D Modeling**

1. **Extrusion and Revolve:** Use extrusion to give thickness to your 2D sketches, or use revolve to create solid bodies by rotating a sketch profile around an axis.
2. **Boolean Operations:** Combine multiple bodies using Boolean operations (union, subtract, intersect) to create complex shapes.
3. **Fillets and Chamfers:** Add fillets (rounded edges) or chamfers (beveled edges) to your model to improve aesthetics and functionality.
4. **Holes and Threads:** Include holes and threads as needed for assembly or functional requirements.

**Step 3: Prepare for 3D Printing**

1. **Check Geometry:** Ensure there are no gaps or intersecting geometry that could cause issues during printing.
2. **Mesh Preparation:** Fusion 360 has tools to convert your solid model into a mesh suitable for 3D printing. Use the "Mesh" workspace to refine the mesh if needed.
3. **Orientation and Supports:** Decide on the orientation of your model for printing. Consider where supports might be needed and how they will be generated.
4. **Export:** Export your model as an STL file, which is the standard file format for 3D printing.

**Step 4: Printing**

1. **Slicing:** Use slicing software (e.g., Cura, PrusaSlicer) to convert the STL file into G-code, which the 3D printer understands.
2. **Printer Settings:** Configure settings such as layer height, infill density, and print speed based on your design requirements and the capabilities of your printer.
3. **Print:** Start the printing process and monitor the progress to ensure everything is going smoothly.

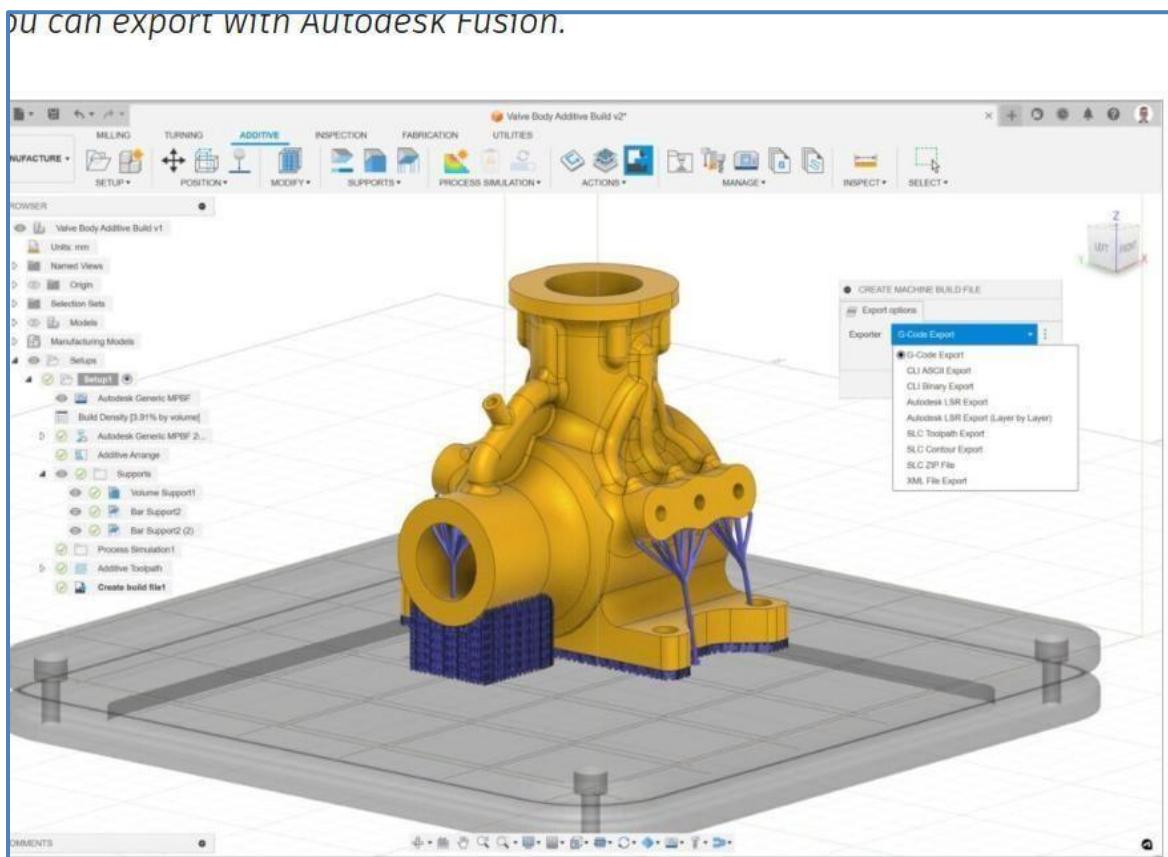
**Step 5: Post-Processing**

1. **Support Removal:** After printing, carefully remove any support structures.
2. **Surface Finishing:** Depending on your design, you may need to sand, polish, or paint the printed object to achieve the desired finish.
3. **Assembly (if applicable):** If your design consists of multiple parts, assemble them

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according to your design specifications.

**SAMPLE OUTPUT:**



**RESULT**

Thus, design of 3D printing was implemented using Fusion 360 for product development.

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**EXP.NO:16**  
**DATE:25.11.25**

**CNC ROUTER FOR ARTCAM SOFTWARE**

**AIM**

Create the design for CNC router using ArtCAM software.

**ALGORITHM:**

**Step 1: Design Conceptualization**

1. **Sketch or Import Design:** Begin by sketching out your design idea or importing a vector-based design into ArtCAM. ArtCAM supports importing various file formats such as DXF, DWG, AI, EPS, etc.
2. **Define Toolpaths:** Decide on the toolpaths you'll use for machining. This includes roughing, finishing, and any additional operations like drilling or pocketing.

**Step 2: Setting Up the Project**

1. **Material and Dimensions:** Specify the material type and dimensions in ArtCAM. This affects how the toolpaths are generated and the overall machining process.
2. **Layer Management:** Organize your design into layers within ArtCAM. This helps in managing different components of the design and assigning toolpaths accordingly.

**Step 3: Design Tools in ArtCAM**

1. **Vector Creation:** Use ArtCAM's drawing tools to create or modify vectors as needed. Vectors define the toolpath for the CNC router.
2. **Relief Creation:** ArtCAM allows you to create 3D reliefs from 2D vectors. This is useful for adding depth and detail to your design.
3. **Texture and Inlays:** Explore ArtCAM's texture and inlay features if you want to add surface textures or combine different materials in your design.

**Step 4: Toolpath Creation**

1. **Roughing Toolpath:** Set up roughing toolpaths to remove excess material efficiently. Adjust parameters such as stepover and cutting depths based on your material and desired finish.
2. **Finishing Toolpath:** Create finishing toolpaths to achieve the final surface quality. Fine-tune parameters like stepover and tool diameter for precision.
3. **Drilling and Pocketing:** If your design requires holes or pockets, set up drilling and pocketing toolpaths accordingly.

**Step 5: Simulation and Verification**

1. **Simulation:** Use ArtCAM's simulation tools to preview how the CNC router will machine your design. This helps in detecting any issues such as collisions or inefficient toolpaths.
2. **Verification:** Verify toolpaths and ensure they are correctly set up to achieve the desired result. Check feeds, speeds, and tool clearances to avoid errors during machining.

**Step 6: Exporting Toolpaths**

1. **Toolpath Export:** Once satisfied with the toolpaths, export them in a compatible format (e.g., G-code) that your CNC router can understand.

**Step 7: Machining**

**ROLL NO:2025PECAI131**

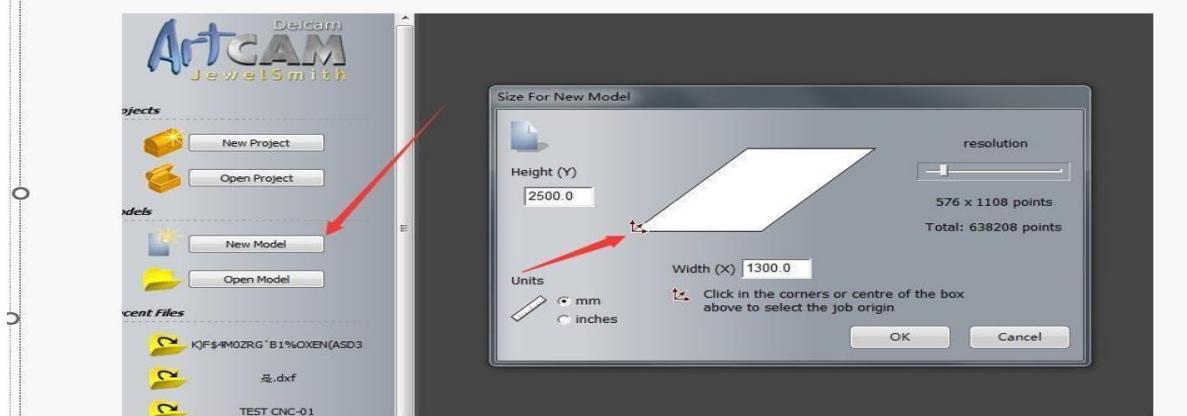
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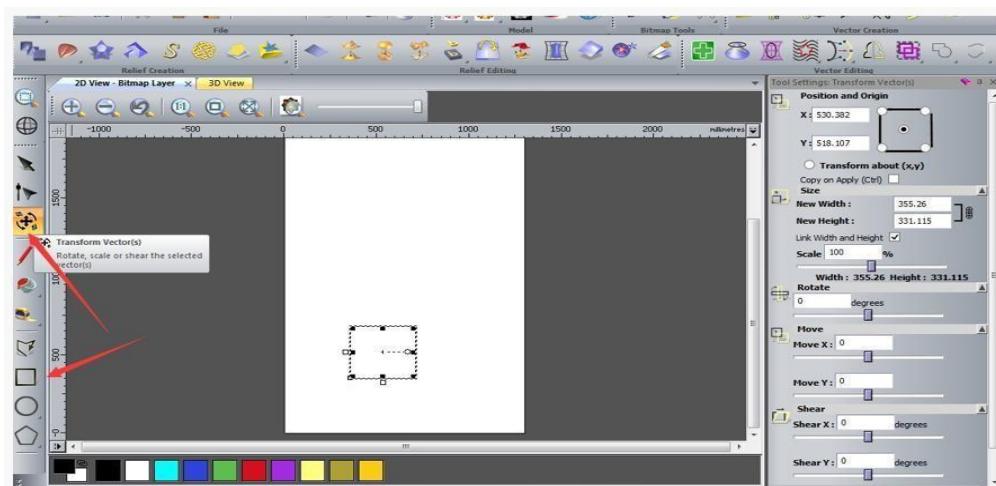
1. **Set Up CNC Router:** Load the exported toolpaths into your CNC router's control software. Follow manufacturer guidelines for tool and material setup.
2. **Machining Process:** Start the machining process, ensuring proper tool alignment and feed rates. Monitor the machining to ensure it progresses as expected.

a) ArtCAM fast start and running

1. Start a new model then set XY size and start origin point(usually on left bottom corner)

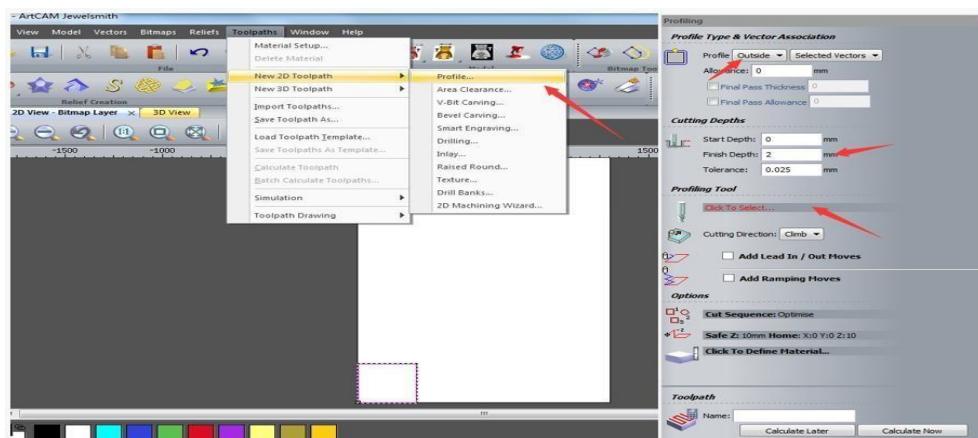


2. Draw any shape and edit the size and position by click transform

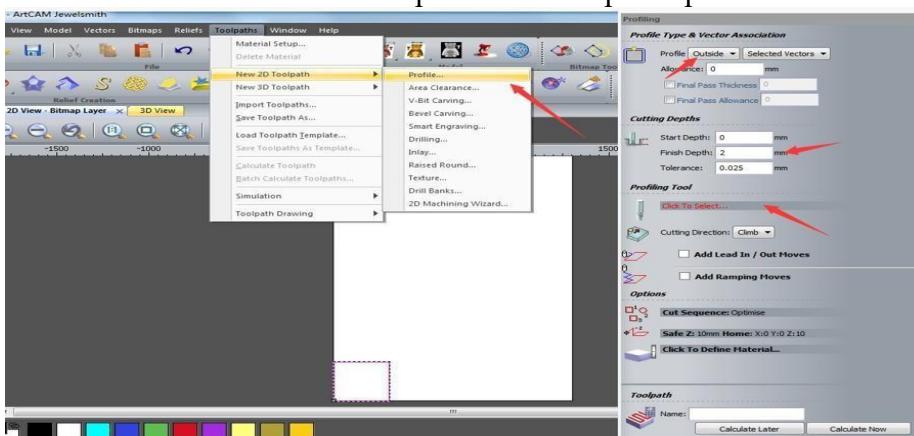


3. Edit the position to start point by picture shows below and the size as well.

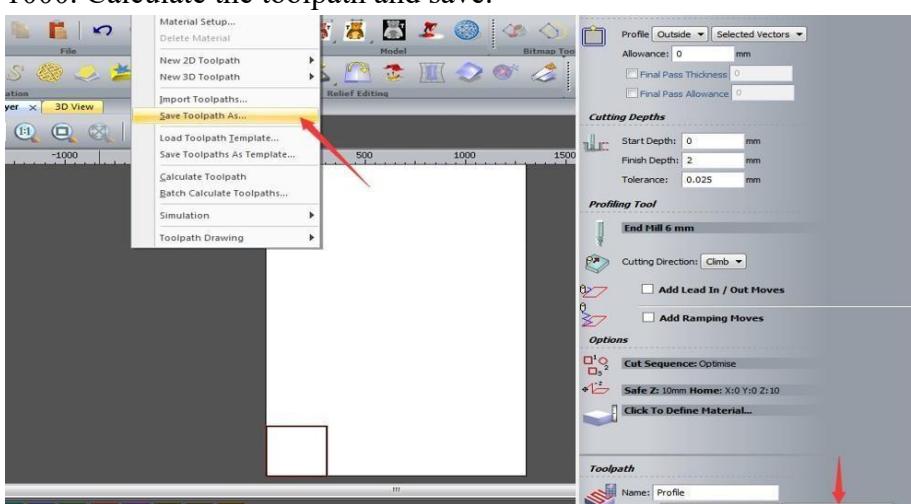
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4. Choose the vector and click toolpaths - 2D toolpath - profile and edit the parameters

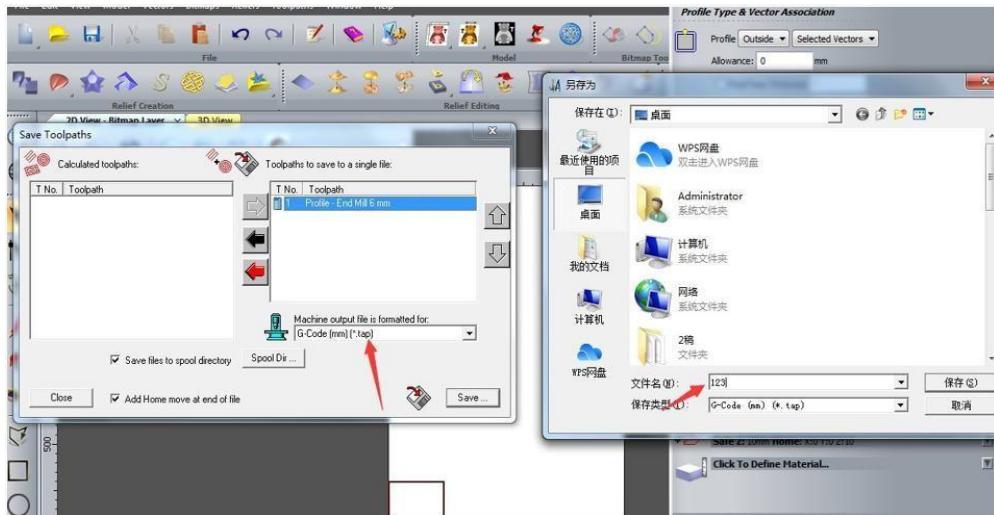


5. Choose the tool you will need to use then edit the speed and step down. During test run on **CNC router**, suggest choose spindle speed 18000 and feedrate 4000mm/min, plunge rate 1000. Calculate the toolpath and save.



6. Choose a post processor and save the gcode, usually choose tap.mmg.nc.cnc

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After save the gcode you can open it in text and check.

As we see below g code, Z cut 2mm down and working speed is 4000, spindle speed is 18000. Put this file into controller and set proper start point then you can test run the CNC router.

```

123 - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
T1M6
G0Z10.000
G0X0.000Y0.000S18000M3
G0X0.000Y-3.000Z10.000
G1Z-2.000F1000.0
G1X-0.34Y-2.961F4000.0
X-0.981Y-2.835
X-1.467Y-2.617
X-1.917Y-2.308
X-2.307Y-1.918
X-2.617Y-1.467
X-2.835Y-0.981
X-2.961Y-0.484
X-3.000Y-0.000
X-3.000Y299.999
X-2.961Y300.483
X-2.835Y300.980
X-2.617Y301.466
X-2.307Y301.917
X-1.917Y302.307
X-1.467Y302.616
X-0.981Y302.834
X-0.484Y302.960

```

#### Additional Tips:

- Material Considerations:** Choose appropriate materials based on your design requirements and CNC router capabilities.
- Safety Precautions:** Follow safety protocols when operating CNC machinery to prevent accidents and ensure a safe working environment.
- Post-Processing:** After machining, perform any necessary finishing operations such as sanding or painting to enhance the final appearance of your design.

#### Benefits of Using ArtCAM for CNC Router Design:

- Precision and Detail:** ArtCAM's vector and relief creation tools allow for precise control over design elements, ensuring high-quality outputs.
- Efficiency:** The ability to simulate and optimize toolpaths helps in minimizing material waste and reducing machining time.
- Versatility:** ArtCAM supports a wide range of materials and CNC machine types,

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making it suitable for various applications from woodworking to engraving and signage.

**Application Examples:**

- **Woodworking:** Creating intricate patterns, furniture components, or decorative elements.
- **Sign Making:** Designing and cutting out letters, logos, and graphics from materials like wood, acrylic, or aluminum.
- **Artistic Sculptures:** Carving detailed sculptures and reliefs based on artistic designs.

**RESULT**

Thus design for CNC router was created using ARTcam software.

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**EXP.NO:17**  
**DATE:25.11.25**

**PCB DESIGN FOR PRODUCT DEVELOPMENT**

**AIM**

Create a PCB design for product Development

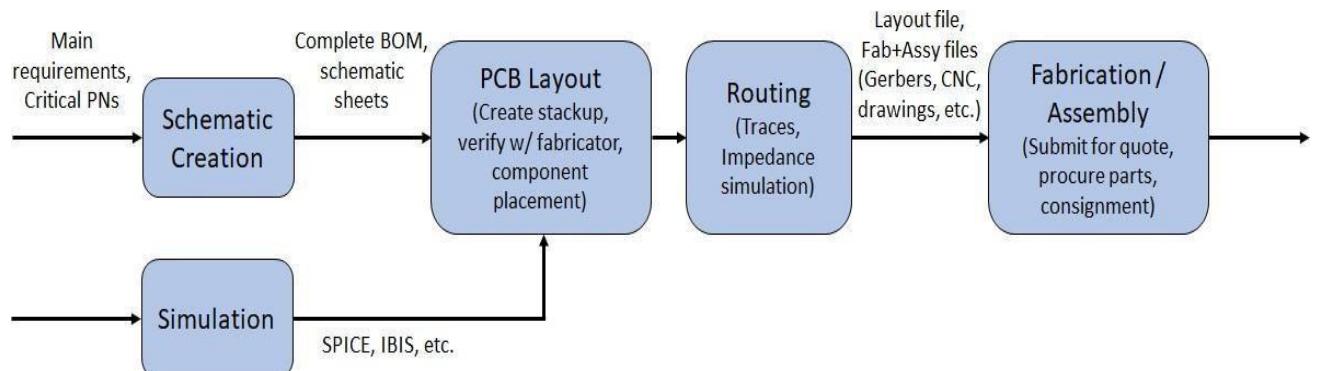
**Step-by-Step Guide to PCB Design for Product Development:**

**1. Requirements Gathering and Specification:**

- **Functional Requirements:** Define what the PCB needs to do—what components it will support, interfaces it needs to have, and the overall functionality it must provide.
- **Constraints:** Consider physical constraints such as size limitations, environmental factors (temperature, humidity), and electrical specifications (voltage, current).

**2. Schematic Design:**

- **Capture Schematic:** Use EDA (Electronic Design Automation) software like Altium Designer, Eagle, or KiCad to create a schematic diagram. Place components and connect them logically according to your requirements.
- **Component Selection:** Choose components based on their electrical characteristics, availability, cost, and suitability for your application. Ensure components are from reliable suppliers.



**3. PCB Layout Design:**

- **PCB Footprint Creation:** Create or verify footprints (physical dimensions and pad layouts) for each component used in the schematic.
- **Placement:** Arrange components on the PCB layout to optimize signal integrity, minimize noise, and facilitate ease of manufacturing (considering component height and orientation).
- **Routing:** Route traces to connect components while adhering to design rules (spacing, clearance, impedance control). Pay attention to signal integrity and power distribution to avoid noise and interference.
- **Ground and Power Planes:** Include solid ground and power planes to provide low impedance paths and improve signal integrity.

**4. Design Verification:**

- **Design Rule Check (DRC):** Run a DRC to ensure your layout meets PCB fabrication capabilities and design constraints (e.g., minimum trace width, spacing, clearance).

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- **Signal Integrity Analysis:** Perform simulations or use built-in tools to check signal integrity, ensuring signal quality is maintained across the board.

**5. Documentation and Preparation for Manufacturing:**

- **Generate Gerber Files:** Export Gerber files, which are the standard format used by PCB manufacturers to fabricate the board.
- **Bill of Materials (BOM):** Create a BOM listing all components, their manufacturers, part numbers, and quantities required for assembly.
- **Assembly Drawings:** Prepare assembly drawings that indicate component placements, orientation, and any special instructions for assembly.

**6. Prototyping and Testing:**

- **Prototype Fabrication:** Order a prototype batch from a PCB manufacturer. Verify that the fabricated boards match your design specifications.
- **Functional Testing:** Test the PCB prototype to ensure it meets all functional requirements. Verify electrical performance, connectivity, and reliability under expected operating conditions.

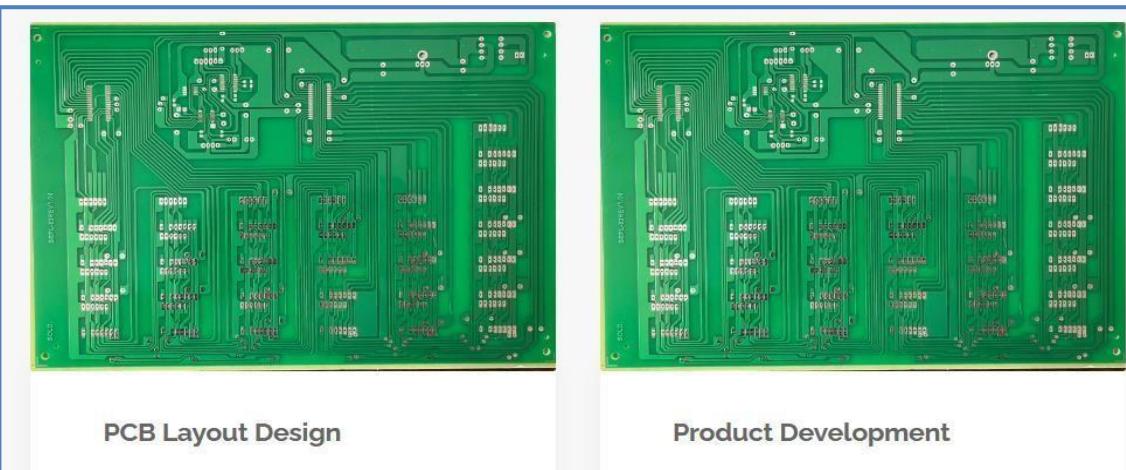
**7. Iterative Refinement:**

- **Feedback Incorporation:** Based on testing results and feedback, refine the PCB design if necessary. Address any issues identified during testing to improve the design's reliability and performance.

**8. Finalization and Production:**

- **Documentation:** Update all documentation including schematics, PCB layouts, BOM, and assembly instructions based on the final design.
- **Mass Production:** Once the design is finalized and tested, proceed with mass production by ordering the required quantity of PCBs from your chosen manufacturer.

**OUTPUT**



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**RESULT**

Thus, Printed Circuit Board design was completed successfully.

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**EXP.NO:18**  
**DATE:2.12.25**

**MINI PROJECT**

**AIM**

Create mini project design for product development.

**Steps for Developing a Mini Project**

**1. Identify a Problem or Need**

- Look for everyday problems or areas where a small technological solution could make a difference.
- Consider the interests and skill levels of the participants in the idea lab.

**2. Brainstorm Solutions**

- Hold a brainstorming session to come up with various ideas.
- Evaluate each idea for feasibility, complexity, and potential impact.

**3. Select a Project**

- Choose a project that balances innovation with practicality.
- Ensure it is something that can be completed within the given timeframe and resources.

**4. Define the Project Scope**

- Clearly outline the goals, requirements, and constraints of the project.
- Break down the project into smaller, manageable tasks.

**5. Plan and Gather Materials**

- Create a project plan with milestones and deadlines.
- List all necessary materials and components, ensuring they are readily available or easily sourced.

**6. Design and Prototype**

- Use design software to create schematics and layouts if the project involves hardware.
- Develop a prototype to test and refine the concept.

**7. Build and Test**

- Assemble the project according to the design.
- Test the project to ensure it meets the defined requirements and functions as intended.

**8. Document and Present**

- Document the design process, including any challenges and how they were overcome.
- Prepare a presentation or demonstration to showcase the project.

**Example Projects**

**1. Smart Plant Watering System**

**Objective:** Create a system that automatically waters plants based on soil moisture levels.

**Components:**

- Soil moisture sensor
- Arduino or Raspberry Pi
- Water pump
- Relay module
- Power supply
- Tubing and containers for water

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**Steps:**

1. Connect the soil moisture sensor to the microcontroller.
2. Program the microcontroller to read moisture levels and activate the water pump when necessary.
3. Set up the water delivery system using the pump and tubing.
4. Test the system with different soil conditions and refine the code as needed.



**2. Home Security Alarm**

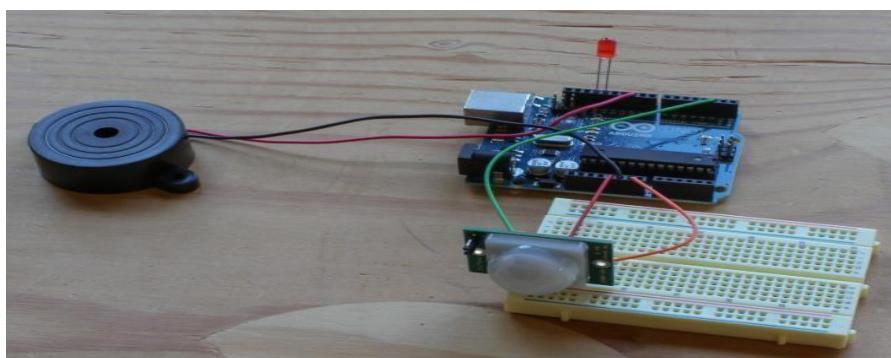
**Objective:** Develop a basic home security system that detects motion and sounds an alarm.

**Components:**

- PIR motion sensor, Arduino or ESP8266/ESP32, Buzzer or alarm, LED indicator
- Power supply

**Steps:**

1. Connect the PIR motion sensor to the microcontroller.
2. Program the microcontroller to activate the buzzer and LED when motion is detected.
3. Test the system in various scenarios to ensure it reliably detects motion and triggers the alarm.



**3. Temperature and Humidity Monitor**

**Objective:** Build a device that monitors and displays temperature and humidity levels.

**Components:**

- DHT11 or DHT22 sensor

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- Arduino or ESP8266/ESP32
- LCD display or OLED screen
- Power supply

**Steps:**

1. Connect the DHT sensor and display to the microcontroller.
2. Program the microcontroller to read data from the sensor and display it on the screen.
3. Test the system to ensure accurate readings and display functionality.



**RESULT**

Thus, the mini projects was completed successfully.

## **ADDITIONAL EXERCISE**

**EXP.NO:19 NOTEBOOK LM(NOTEBOOK LANGUAGE MODEL LEARNING  
DATE:09.12.25 BASICS OF CHATGPT)**

**AIM**

To demonstrate and explore the features of NotebookLM.

**INTRODUCTION**

**What is NotebookLM?**

NotebookLM is an AI-powered tool designed to help users organize, analyze, and understand their notes, documents, or research materials.

It works like a combination of a smart digital notebook and an AI tutor — but only uses the content you upload.

Built using Google's advanced **Gemini AI models**, it provides accurate, source-based responses.

**Key Features**

**1. Source-Grounded AI**

- NotebookLM relies only on the documents, notes, or files you upload.
- It does not pull information from the web or guess answers.
- This ensures accuracy and relevance to your study or project materials.

**2. Ask Questions About Your Content**

- You can ask the AI questions directly related to your uploaded material.
- Example:

*“Summarize this PDF.”*

*“Explain Section 2 in simple language.”*

**3. Automatic Summaries**

- Quickly generates summaries from long research papers, articles, or notes.
- Useful for students, researchers, and professionals handling large volumes of information.

**4. Generate Drafts and Ideas**

- Helps create outlines, FAQs, study guides, and structured drafts based on your documents.
- You can brainstorm and develop ideas more efficiently.

**5. Organized Notebook Structure**

- Files and AI-generated content stay neatly arranged within a notebook.
- You can upload, label, group files, and store the AI's responses for future use.

**How to Use NotebookLM**

1. Sign in using your Google account at **notebooklm.google**.
2. Upload your documents (PDFs, text files, handwritten notes, etc.).
3. Ask the AI to summarize, explain, or generate content strictly from your uploaded sources.
4. Save AI-generated summaries, ideas, or explanations inside the notebook.

5. Share notebooks with others for teamwork or collaborative study.

### **Who Uses NotebookLM?**

- **Students:** Summarize lectures, understand chapters, create study guides.
- **Researchers:** Extract insights, simplify complex papers, prepare literature summaries.
- **Writers & Journalists:** Organize interview notes, draft articles, fact-check using source documents.
- **Professionals:** Manage meeting notes, project files, and documentation efficiently.

### **Why NotebookLM is Useful**

- Saves time by summarizing documents quickly.
- Minimizes manual copy-paste work.
- Helps users effectively utilize the information they collect.
- Keeps all files, summaries, and AI responses in one organized space.
- Works only with your uploaded content — no external search results.
- Maintains privacy: files and AI outputs stay linked to your Google account.

#### **In short:**

**NotebookLM is an intelligent notebook that reads, understands, and helps you work with your own notes and documents — faster, easier, and smarter.**

### **ALGORITHM**

#### **Step 1:**

Open the website:

<https://notebooklm.google/>

#### **Step 2:**

Create a new notebook.

#### **Step 3:**

Upload the provided file **struct.pdf** into the notebook.

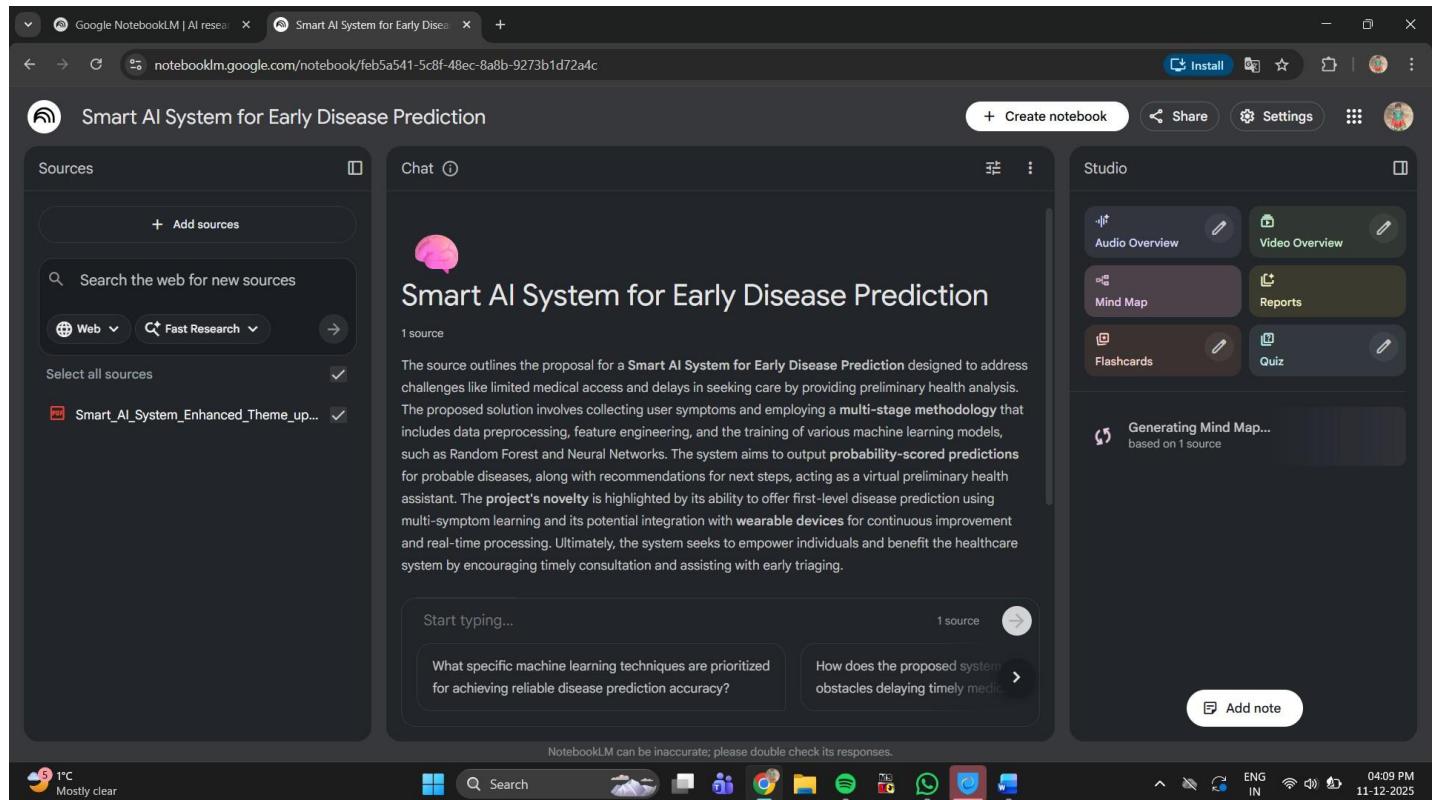
#### **Step 4:**

Use the **Audio Overview** option to listen to the document's contents.

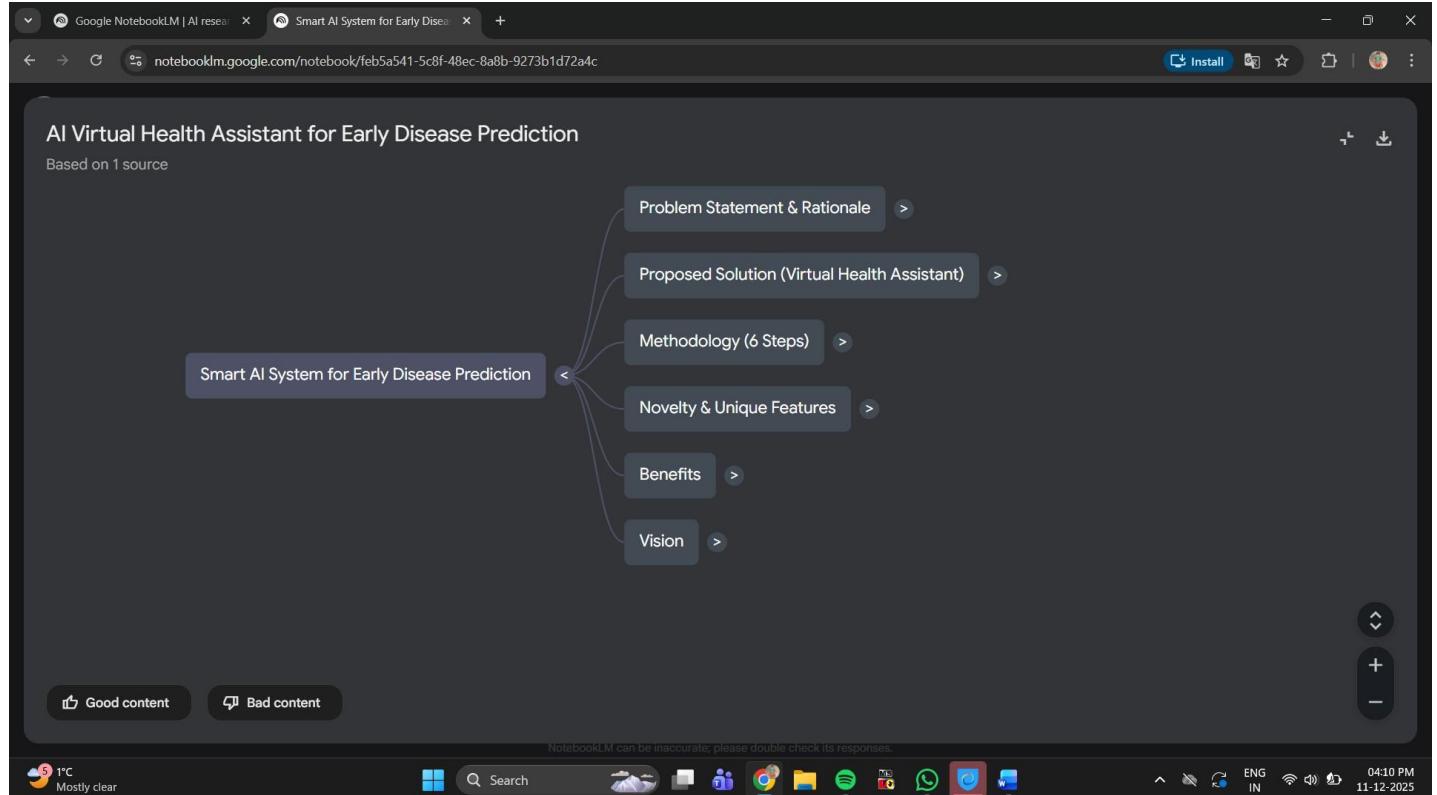
#### **Step 5:**

Click on the **Mind Map** feature to visualize the structure and relationships within your document.

## SAMPLE OUTPUT:



The screenshot shows the Google NotebookLM interface with a dark theme. On the left is a sidebar titled "Sources" with sections for "Add sources" and "Search the web for new sources". Below these are dropdown menus for "Web" and "Fast Research". A "Select all sources" checkbox is checked. A single source titled "Smart\_AI\_System\_Enhanced\_Theme\_up..." is listed. The main area is titled "Smart AI System for Early Disease Prediction" and contains a summary of the proposed system's methodology, novel features, and benefits. At the bottom of this section, there are two buttons: "Start typing..." and "How does the proposed system...". The right side of the interface has a "Studio" panel with options for "Audio Overview", "Video Overview", "Mind Map" (which is currently active and generating a map), "Reports", "Flashcards", and "Quiz". A progress bar indicates "Generating Mind Map... based on 1 source". The bottom of the screen shows a taskbar with various application icons and a system tray indicating the date and time as 11-12-2025.



This screenshot shows a mind map generated by NotebookLM. The central node is "Smart AI System for Early Disease Prediction". Six branches radiate from it to other concepts: "Problem Statement & Rationale", "Proposed Solution (Virtual Health Assistant)", "Methodology (6 Steps)", "Novelty & Unique Features", "Benefits", and "Vision". At the bottom left, there are "Good content" and "Bad content" buttons. The bottom of the screen shows a taskbar with various application icons and a system tray indicating the date and time as 11-12-2025.

**RESULT:**

Thus the Notebook LM AI tool is demonstrated with a suitable example.

**EXP.NO:19**  
**DATE:09.12.1015**

## **CREATING A WEBSITE USING GOOGLE SITES**

### **AIM**

To create a website using google sites.

### **ALGORITHM:**

Step 1: Access Google Sites

1. Open a web browser and visit Google Sites.
2. Log in to your Google account.
3. Click on the "+" or "Create" button to start a new website.

Step 2: click the template gallery. You can see all the templates

Click blank website

Step 3 Create your site, name it and add logo

Step 4: All websites have home, contact us etc, add them. See top right. Pages option is found. Just click on it. Click new page option at the bottom

Step 5 : Add the videos, about us and contact pages using add page.

Step 6 : Click three dots in the right side. You can see make homepage, duplicate page, properties, add subpage, etc

Step 7: Click add subpage. Create 2 subpages called Tutorial and Name it as tutorial , Tips and tricks

Step 8: Set themes

Step 9: Choose vision as the theme option

Step 10 : Choose the font and color. Design each page. Now drag one of the elements.

Step 11: Change the colors and the palette option

Step 12 : Edit the text and click + symbol, you add a picture or YouTube video. Add a text box below it and post the text . Create a video and provide link Click social media and link

Step 13 : Add footer. Take the mouse down. Click add footer. And then you can type whatever you want to add. Similarly do for all pages.

Step 14: Before to publish go to settings icon. You can see few useful options

Step 15: Preview your website and publish it. Before to publish go to settings icon.

## SAMPLE OUTPUT:

Student Portfolio      All changes saved in Drive.

Your Name

Learning Journey

About Me

Tell your site viewers more about yourself.

What grade are you in and what school do you go to?

Change image    Reset    Header type

Insert   Pages   Themes

Text box   Images

Embed   Drive

Layouts

Collapsible text

Table of contents

Image carousel

Button

Divider

**RESULT:**

Thus a website was created using google site.

EX.NO:19

## DESIGN A GOOGLE FORM

### AIM

To design a Google Form, understand all major features, share it to collect responses, and view the response summary using Google Forms.

### SOFTWARE / TOOL REQUIRED

**Google Forms** ([forms.google.com](https://forms.google.com))  
Web browser (Chrome / Firefox / Edge)  
Google account

### PROCEDURE

#### 1. Create a New Google Form

- Open [forms.google.com](https://forms.google.com)
- Click **Blank Form**
- Enter **Form Title** (e.g., Feedback Form)
- Add a **Form Description** to explain its purpose.

#### 2. Add Questions

- Click the + (**Add Question**) button.
- Choose question types such as:
  1. Short Answer
  2. Paragraph
  3. Multiple Choice
  4. Checkboxes
  5. Dropdown
  6. File Upload
  7. Linear Scale
  8. Multiple Choice Grid / Checkbox Grid
  9. Date / Time
- Mark important questions as **Required**.

#### 3. Customize the Form

- Click **Customize Theme**:
  1. Change header image
  2. Change background color
  3. Change font style
- Use **Preview** (eye icon) to check form appearance.

#### 4. Share and Collect Responses

- Click **Send**
- Share via:
  1. **Link**
  2. **Email**
  3. **Embed HTML** (for websites)
- Enable:
  1. *Collect email addresses* (optional)
  2. *Limit to 1 response* (optional)

#### 5. View & Analyze Responses

- Open **Responses** tab
- View:
  1. Summary (charts, graphs)
  2. Question-wise responses
  3. Individual responses

- Export responses to **Google Sheets** by clicking **Link to Sheets** con.

## ALL IMPORTANT FEATURES OF GOOGLE FORMS (EXPLAINED FOR LAB WRITE-UP)

### ✓ 1. Question Types

Google Forms supports multiple question formats:

- Short Answer
- Paragraph
- MCQ
- Checkboxes
- Dropdown
- File Upload
- Linear Scale
- Multiple Choice Grid
- Checkbox Grid
- Date & Time

### ✓ 2. Quiz Mode

- Convert any form to a quiz (Settings → Make this a Quiz)
- Add correct answers using **Answer Key**
- Assign points
- Automatic grading

### ✓ 3. Themes & Customization

- Add header image
- Change fonts
- Set background colors
- Adjust design layout

### ✓ 4. Form Sections & Logic

- Divide form into multiple sections
- Apply **Go-to-section based on answer** logic
- Used for surveys, branching questions

### ✓ 5. Validation Options

- Response validation for:
  1. Email
  2. Number
  3. Text length
  4. Regular expressions
- Ensures correct data entry

### ✓ 6. Response Management

- View responses in:
  1. **Summary**
  2. **Question**
  3. **Individual** view
- Download responses
- Export to Google Sheets
- Generate charts automatically

### ✓ 7. Sharing Features

- Send via email
- Copy form link
- Create QR code
- Embed in website
- Restrict to organization users

### ✓ 8. Settings Options

Includes important controls:

- Collect Email Addresses
- .. Limit to 1 Response
- Allow Editing After Submission
- Show Summary to Respondents
- Enable/Disable Quiz mode
- Shuffle Question Order

SAMPLE OUTPUT:

The screenshot shows a Google Form titled "CULTURALFORM2025". At the top, there is a note: "The name, email, and photo associated with your google account will be recorded when you upload files and submit this form." Below this, there is a "NAME\*" field with the placeholder "Enter your name (optional)". Under "BRANCH\*", there is a list of checkboxes for AOE, AME, EEE, IT, and MECHANICAL. On the right side of the form, there is a vertical toolbar with icons for back, forward, search, and other form-related functions.

The screenshot shows a Google Form with sections for "YEAR OR STUDY\*" (checkboxes for I YEAR, II YEAR, III YEAR, IV YEAR), "EVENTS\*" (checkboxes for SAMSON, SAVING, ARTS, FASHION SHOW, and Sports S.), and "TEAM MEMBERSHIP" (text input placeholder "Enter your name (optional)"). The interface is similar to the first one, with a toolbar on the right.

**RESULT**

Thus, a Google Form was successfully created, customized, shared to collect responses, and all major features of Google Forms were understood and explained.

## EXP.NO:19 INTERACTIVE PROJECT PRESENTATION USING GOOGLE SLIDES

### AIM

To create an interactive project presentation using Google Slides by adding structured content, design elements, and interactive navigation links to enhance user engagement.

### ALGORITHM

#### Step 1: Open Google Slides

1. Sign in to your Google account.
2. Open Google Slides from the Google Apps menu or slides.google.com.
3. Create a new blank presentation.
4. Rename the presentation appropriately.
5. Choose a layout or theme to begin with.

#### Step 2: Plan the Structure of the Presentation

1. Decide the start, middle, and end sections of your project.
2. Determine how many slides are required.
3. Allocate content to each slide.
4. Identify where interactive elements will be used.
5. Arrange slides in logical order.

#### Step 3: Add Content to Slides

1. Insert titles, subtitles, and short descriptions.
2. Add images, shapes, icons, tables, or charts as needed.
3. Use bullet points for clarity and readability.
4. Maintain a clean layout for all slides.
5. Keep information minimal and focused.

#### Step 4: Insert Interactive Elements

1. Select text, shapes, or images to convert into interactive buttons.
2. Add hyperlinks to connect slides internally.
3. Add links to external websites if required.
4. Insert buttons like "Home," "Next," and "Back."
5. Apply smooth animations and transitions for engagement.

#### Step 5: Customize the Design

1. Choose a suitable theme that matches the project.
2. Adjust font style, size, and color for readability.
3. Use alignment tools for clean positioning of elements.
4. Ensure consistency in design across all slides.
5. Use high-quality visuals to enhance appearance.

#### Step 6: Review and Test Interactivity

1. Run the presentation in slideshow mode.
2. Click on all buttons and links to ensure proper functioning.
3. Check for spelling, spacing, and formatting errors.
4. Adjust animations and pacing if needed.
5. Make corrections to finalize the presentation.

#### Step 7: Present or Share the Slides

1. Use the "Present" button to deliver the presentation.
2. Share the link for collaboration or viewing.
3. Change access permissions (view/comment/edit) as required.
4. Download as PPT, PDF, or video if needed.
5. Save all changes and close the project.

#### SAMPLE OUTPUT:

## SAMPLE OUTPUT:

**SMART AI SYSTEM FOR EARLY DISEASE PREDICTION USING PATIENT SYMPTOMS**

TEAM ID: 25ADS80  
TEAM NAME : NEURACURE  
DEPARTMENT: AI & DATA SCIENCE  
EVENT: IDEATHON 2025  
TEAM MEMBERS: AKSHAYA V, ARINI V ,ASMITHA S  
MENTOR : DR.A.KISTAN

Click to add speaker notes

**PROBLEM STATEMENT**

Early diagnosis of diseases is crucial, but many patients delay consulting doctors due to:

- Lack of awareness about symptoms
- Misinterpretation of early warning signs
- Fear, cost, or time constraints
- Limited medical accessibility

These delays often lead to serious complications and increased mortality.  
Hence, a system is needed that can predict possible diseases early using simple symptom input.

Click to add speaker notes

## RESULT

Thus, an interactive project presentation was successfully created using Google Slides, incorporating navigation elements, visual design, and structured content.