**Title –** Code Generation with Blackbox.ai

**Concept -** AI-powered tools to generate Website, apps and codes.

**Theory applied to experiment-**Students will learn how prompts in Blackbox.ai can be used to generate not only websites but also other code-based projects. They will develop an understanding of basic programming outputs without having to write code themselves.

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| **Materials required** | **Hardware Requirements:**   |  |  | | --- | --- | | **Components** | **Quantity** | | Computer or laptop with internet access | 1 |   **Software Requirements:**   |  |  | | --- | --- | | **Components** | **Quantity** | | **Links:** [**Blackbox.ai**](https://www.blackbox.ai/) | 1 | | Web browser (Google Chrome recommended) | 1 | |
| **Procedure** | **Refer this link**    **YouTube link-** [**https://youtu.be/nRHTRsCloAw?si=Q6GNmoe\_naLBTRbc**](https://youtu.be/nRHTRsCloAw?si=Q6GNmoe_naLBTRbc) |
| **Procedure to be performed by student** | **Procedure to Perform:**   1. **Access Blackbox.ai**:    * Open the link to Blackbox.ai in your browser.    * Sign up or log in to your account if required. 2. **Start a New Project**:    * Click on "Create New Project."    * Choose the appropriate project type (website, app, or game) based on the task. 3. **Enter Prompt**:    * For each use case, type a specific prompt (e.g., "Create a fun quiz game for kids about animals").    * Press "Generate" to create the project. 4. **Customize**:    * Review the output generated by Blackbox.ai.    * Add your own text, images, or customizations as needed.    * Tweak colors, layouts, or functions to suit your project. 5. **Preview and Save**:    * Click "Preview" to see the result.    * Once satisfied, save or export the project.   **Use Case 1: Simple Quiz Game**  **Prompt**: "Create a fun quiz game for kids about animals with three questions."  **Steps**:   1. Start a new project and choose a game option. 2. Input the quiz game prompt in the text box. 3. Customize the questions and answers by adding facts about different animals. 4. Test the game by previewing it, and tweak any features like colors or button layouts. 5. Save the game and share it with friends.   **Use Case 2: Animated Greeting Card**  **Prompt**: "Create an animated greeting card with falling snow and a holiday message."  **Steps**:   1. Start a new project and choose an animation-based project type. 2. Enter the prompt for the animated greeting card. 3. Customize the text to include your own holiday message, and adjust the animation style. 4. Preview the animation to ensure it looks perfect, then save or share it.   **Use Case 3: Simple Mobile App Layout**  **Prompt**: "Create a simple mobile app layout for a to-do list with add and remove task features."  **Steps**:   1. **Open Blackbox.ai:**    * Go to [Blackbox.ai](https://blackbox.ai) in your web browser. 2. **Select "Image to App":**    * On the main screen, click on the **"Image to App"** button. This feature allows you to create apps based on visual designs. 3. **Upload a Relevant Image:**    * Create or find an image of a simple to-do list layout. This could be a sketch or design that shows:      + An input field for tasks.      + Buttons for adding and removing tasks.    * Click on the upload icon and select your image file from your computer. 4. **Generate the App Layout:**    * After uploading the image, Blackbox.ai will analyze it and generate a corresponding app layout.    * Wait for the app layout to be created. This may take a few moments. 5. **Review the Generated Layout:**    * Look at the generated app layout and ensure it resembles your original design.    * Check if the necessary features (input field, add/remove buttons) are present. 6. **Customize the App (if necessary):**    * If the layout needs adjustments, look for any customization options available in the tool. This may include changing colors, text, or button placement. 7. **Preview the App:**    * Find and click on a "Preview" option to see how your app looks on a mobile device. 8. **Save or Export the Project:**    * Once satisfied with your app layout, click the "Save" or "Export" button to keep your project.    * Select the format you want to save it in. 9. **Share Your Results:**    * Share the app layout with classmates or teachers to gather feedback. |
| **Observation /analysis** | * Students will observe how the AI tool generates outputs based on different prompts. * They will analyze the ease of customization and how prompts shape the generated content. |
| **Conclusion** | Blackbox.ai can be used for much more than websites! With the right prompts, it can generate games, animations, and even mobile app layouts. This experiment shows students the power of AI in creating various types of outputs based on simple inputs. |
| **Experiment takeaways** | * AI can generate various types of creative and functional outputs, including websites, games, and apps. * Students can explore fun ways to create interactive experiences by just using prompts. * Blackbox.ai simplifies complex coding tasks, allowing students to focus on creativity. |