

DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

Experiment No 15

Create a website and host on open source.

Roll No.: _____

Batch: _____

Date of Performance: _____

Date of Assessment: _____

Particulars	Marks
Regularity (05)	
Practical Performance (05)	
Documentation (05)	
On-time Submission (05)	
Understanding (Viva) (05)	
Total (25)	
Signature of Course Teacher	

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(PART B : TO BE COMPLETED BY STUDENTS)

(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the Google classroom or emailed to the concerned lab in charge faculties at the end of the practical in case there is no ERP access available)

B.1 DOCUMENT CREATED BY THE STUDENT:

(Students are expected to write Code and insert output here)

References:**B.2 OBSERVATIONS AND LEARNING:**

(Students are expected to understand the selected topic. Write your observations after learning)

B3. CONCLUSION**B.4 POST LAB EXPERIMENT**

(To be answered by student based on the practical performed and learning/observations)

ACTIVITY 1: CREATE A BASIC WEBSITE AND HOST IT ON AN OPEN-SOURCE PLATFORM

- **Objective:** The objective of this task is to practice building a basic website and hosting it on an open-source platform such as GitHub Pages. Students will create a simple webpage with HTML and CSS and deploy it online for public access.
- **Tasks:**
 1. **Create the HTML Structure:**
 - Create a simple **HTML webpage** with the following sections:
 - A **header** with a title (e.g., "My Personal Website").
 - A **main section** with a short introduction paragraph and an image of your choice.
 - A **footer** with basic information (e.g., copyright and contact info).
 2. **Style with CSS:**
 - Use **CSS** to style the webpage:
 - Set the background color of the webpage.
 - Center the content, including text and images.
 - Apply some basic styling to the header and footer (e.g., background color and text alignment).
 3. **Create a GitHub Repository:**
 - Create a **GitHub account** if you don't have one already.
 - Create a **new repository** on GitHub for your project.
 4. **Push Your Website to GitHub:**
 - Initialize a **Git** repository locally and commit your HTML and CSS files.
 - Push the repository to **GitHub**.

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5. Host the Website on GitHub Pages:

- Once your files are uploaded to GitHub, use the **GitHub Pages** feature to host your website.
- Ensure that the website is publicly accessible and that the URL is provided.

B5. VIVA QUESTIONS

1. What are the key steps involved in creating a website, and how would you structure the development process from planning to deployment?
2. What is an open-source platform for hosting websites, and what are some popular options available for hosting a website for free or with minimal cost? Can you explain the advantages of using open-source hosting platforms?
3. How do you deploy a website on an open-source platform, such as GitHub Pages, Netlify, or Firebase? Could you walk through the process of hosting your website on one of these platforms?
4. What is the role of version control systems like Git in hosting websites on open-source platforms? How would you use Git to manage and update your website's code before hosting it?
5. What are some challenges or limitations of using open-source hosting platforms, and how would you address them to ensure your website remains accessible and functional?