

Experiment No. : .....

Name of the Experiment : .....

Case Study II:- Repository creation and sample code deployment.

a] Create a new public GitHub repository choose any programming language and write a sample "Hello world" program directly on the GitHub platform share the public URL of your repository.

b] Add a README and file and a suitable LICENSE repository. Explain the purpose and significance of both files in open-source project management.

Title of the Experiment.

Creating and Managing a GitHub Repository with Sample Code and Documentation.

Aim:-

To create a public GitHub repository, upload a sample code in a selected programming language, and manage the repository using essential files like README.md and LICENSE.

Theory:-

Creating and managing a GitHub repository is a fundamental part of software development and version control. A repository acts as a container for project files and revision history.

Essential supporting files like README.md and LICENSE improve a project's usability.

- README.md provides a clear overview of what the project does, how to install / run it and any additional documentation.



- **LICENSE** defines the legal usage terms for others who want to reuse or contribute to the code.

### Use Cases

- Hosting small, personal projects
- Sharing sample code in interview, assignments
- Beginning Open Source Contributions

### Benefits

- Makes your project accessible from anywhere
- Helps collaborators understand the project
- Clarifies legal permissions and contribution terms.

### a] Steps to Create a Public GitHub Repository with Sample Code

1. Log in your Git account.
2. Click on New repository
3. Enter details like repository name, description, and make it public
4. Choose a language.
5. Create a file named `hello.py` and write:  

```
print("Hello, World!")
```
6. Commit the file directly to the main branch.
7. Click on Code > copy the public URL and share it

### b] Add a README.md and LICENSE file:

#### README.md

- purpose: Provides an overview of the project
- content:

# Hell World Program

This is a simple Python program that prints "Hello, World!"



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## LICENSE:

- Choose a license like MIT or Apache 2.0 from GitHub's license options
- Purpose: Allows others to legally use, modify, or distribute your code.

## Significance:-

- README and improve accessibility and project understanding
- LICENSE ensures legal clarity and encourages contribution without legal risk.
- Together, they make the project more professional and open source ready.

## Conclusion:-

By creating a GitHub repository, I learned how to publish code and add essential documentation. I now understand how to organize a project for public use and highlight its purpose and usage rights, which is critical for open-source collaboration and academic submissions.