



SANDIP FOUNDATION'S  
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Date :

Experiment NO: 02-A

Aim:-

Create version control account on GitHub and using Git commands to create repository and push your code to GitHub

Theory:-

1) What is Git?

Git is a popular Version Control System. It was created by Linus Torvalds in 2005, and has been maintained by Junio Hamano since then.

2) What is used for:

- Tracking code changes
- Tracking who made changes
- Coding collaboration.

3) What does Git do?

- Manage projects with repositories.
- clone a project to work on local copy
- control and track changes with staging and committing.
- Branch and Merge to allow for work on different parts and versions of project
- pull the latest version of the project to a local copy.
- push local updates to the main project

4) Working with Git:

- Initialize Git on a folder, making it a Repository
- Git now creates a hidden folder to keep track of changes in that folder.
- While a file is changed, added or deleted, it is considered modified
- You select the modified files you want to stage.
- The staged files are committed, which prompts Git to store a permanent snapshot of the files

- Git allows you to see the full history of every commit.
- You can revert back to any previous commit.



◀ Back WAD lab practical manual ▶

- The staged files are committed, which prompts Git to permanent snapshot of the files

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- Git allows you to see the full history of every commit.
  - You can revert back to any previous commit.
  - Git does not store a separate copy of every file in every commit, but keeps track of changes made in each commit!

#### ④ Why Git 2

- over 70% of developers use Git
  - Developers can work together from anywhere in the world
  - Developers can see the full history of the project.
  - Developers can revert to earlier versions of a project.

5) What is Github

- Git is not the same as GitHub.
  - GitHub makes tools that use Git.
  - GitHub is the largest host of source code in the world and has been owned by Microsoft since 2018.

### Conclusion:-

We have created a version control account on GitHub and by using Git commands push the code to GitHub.

