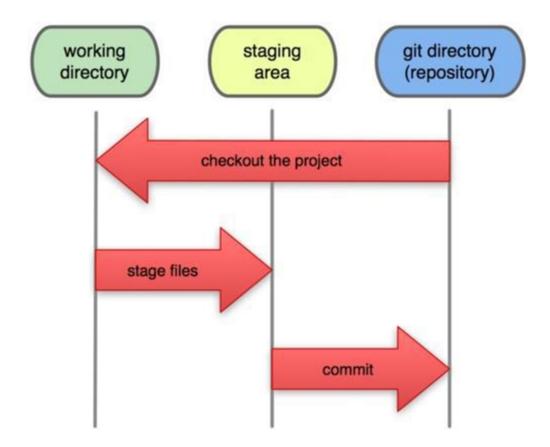


Experiment – 5

Aim: Git Life Cycle Description

Now let's understand the three-stage architecture of Git:



Working Directory: This is the directory that we've initialized, and here all the changes are made to commit on GitHub.

Staging Area: This is where we first put out code or files of the working repository. The command that we use to stage code is, "git add --a", "git add File Name" or "git add -A".

In simple terms, staging means telling Git what files we want to commit (new untracked files, modified files, or deleted files).

Git directory(repository): This is where all the commits are stored whenever we make a commit. We can revert to an older version of or project using the "git checkout" command from this directory.



Some Important Commands

Git operations and commands:

First of all, Create a local repository using Git. For this, you have to make a folder in your device, right click and select "Git Bash Here". This opens the Git terminal. To create a new local repository, use the command "git init" and it creates a folder .git.

➤ When we use GIT for the first time, we have to give the user name and email so that if I am going to change in project, it will be visible to all.

```
For this, we use command →

"git config --global user.name Name"

"git config --global user.email email"

For verifying the user's name and email, we use →
```

"git config --global user.name"
"git config --global user.email"

- $ls \rightarrow It$ gives the file names in the folder.
- **Is -lart** \rightarrow Gives the hidden files also.
- **git status** → Displays the state of the working directory and the staged snapshot.
- touch filename → This command creates a new file in the repository.
- Clear \rightarrow It clears the terminal.
- $rm rf \cdot git \rightarrow It$ removes the repository.
- **git log** \rightarrow displays all of the commits in a repository's history
- **git diff** → It compares my working tree to staging area.