## Git:

Git means distributed system version control system which basically means

- 1- It is a kind of a system which records changes you make to your files over time.
- 2- Many people can easily collaborate on your project (if you working on a team/group) project and can have their own version on their computer as well work further.
- 3- We can recall any version of those files at any given time.

# **GitHub:**

GitHub acts like a server to host our projects so that we can share our code to fellow developers, project team members etc.

### **Starting with GitHub Basics:**

First, we need to install Git



### **Stages in the Git Workflow:**

### • Modified:

1- Firstly, initialize git repository

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

PS C:\Users\DELL\Downloads\Installation_git> git init
Initialized empty Git repository in C:/Users/DELL\Downloads/Installation_git/.git/
```

2- Creating a new file (index.html)

```
Initialized empty Git repository in C:/Users/DELL/Downloads/Installation_git/.git/
PS C:\Users\DELL\Downloads\Installation_git> New-Item -Path .\.git\ -Name "index.html" -ItemType "File"

>> Cot | Cotting
```

3- Removing file (index.htm) from staging area and further making a new file styles.css

```
PS C:\Users\DELL\Downloads\Installation_git> git rm --cached index.html rm 'index.html'
PS C:\Users\DELL\Downloads\Installation_git>
```

#### Making a new file (styles.css)

## • Staging:

In the staging phase, we add these new files after creating or if we did some changes to our existing file.

#### Using git add and git add.

Here first we added our index.html file

```
PS C:\Users\DELL\Downloads\Installation_git\cd..
```

Here we added styles.css **git add.** means to add all those files we created or changed.

#### • Commit:

#### Git log:

```
PS C:\Users\DELL\Downloads\Installation_git> git log
commit 4f712663a6fca616a1cbd28e7ad03ebd90e18099 (HEAD -> master)
Author: Memoona <memoonabasharat23@gmail.com>
Date: Fri Jun 14 15:55:25 2024 +0500

My first commit
PS C:\Users\DELL\Downloads\Installation_git>
```

#### **To check commits:**

```
PS C:\Users\DELL\Downloads\Installation_git> git log --oneline

4f71266 (HEAD -> master) My first commit

PS C:\Users\DELL\Downloads\Installation_git>
```