

Name - Lal Pokharna
PRN no. - 1032210766
Class - ECE (AI & ML)
Subject - FSD

Exp - 1

Q1 What is Git? What is Version Control?

Ans Git - Git is a free and open source distributed version control system (VCS) designed to handle everything from small to very large projects with speed and efficiency. It allows developers to track changes in their code, collaborate with others, and manage versions of a project.

Version Control - It is the practice of managing and tracking changes to files over time. It ensures that changes are saved, can be reviewed and rolled back if necessary. It's particularly useful in collaborative environments where multiple people work on the same project.

Q2 How to use Git for Version Controlling?

Ans Steps to use Git for Version Controlling:-

1 Install Git :-

2 Configure Git :-

Code : `git config --global user.name " "`
`git config --global user.email " "`

3 Install a repository :-

Code : `git init`

4 Add files :-

Code : `git add < filename >`

5 Commit Changes :-

Code : `git commit -m "xy"`

6 Connect to remote Repository :-

Code : `git remote add origin < url >`
`git push -u origin main`

7 Branching and merging :-

Code : `git branch < name >`
`git merge < name >`

8 Update Repository :
Code : `git pull`
`git fetch`

Q3 What is Branching in Git?

Ans Branching in Git allows you to create separate versions of your codebase to work on new features, fixes or experiments without affecting the main codebase. Each branch works independently and can be merged back into the main branch when ready.

Q4 How to Create and Merge Branch in Git

Ans Commands to create a Branch :

1 Create a new Branch :
Code : `git branch <name>`

2 Switch to new branch :
Code : `git checkout <name>`

Commands to Merge Branches :
Code : `git merge <branch name>`



fsddemo

Public

Pin

Unwatch

1

master

2 Branches

0 Tags

Go to file

Add file

<> Code

This branch is 2 commits ahead of, 1 commit behind main

Contribute



PalPokharna

Commit message: Modified second file

fb22e18 · 2 weeks ago

2 Commits



class.html

Commit message: Created first file

2 weeks ago



class2.html

Commit message: Modified second file

2 weeks ago



README



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