Assignment Day-1
21.07.2025

Task 1: Initialize a Git Repository " Scenario: You just created a new project folder called PortfolioWebsite. You want to start tracking it with Git

Commands :

$ cd PortfolioWebsite

$ git init

Task 2: Create a New Branch for Feature Development " Scenario: You're adding a "Contact Us" form to your site. Instead of working on main, you want to isolate changes.

Commands :

$ git checkout -b contact-form

Task 3: Commit Code with Message " You created the HTML form and want to save it with a descriptive message

Commands :

$ git status

$ git add .

$ git add index.html

$ git commit -m "Add Contact Us form to index.html"

Task 4: Pull Before Push to Avoid Conflicts " You and your teammate are working on the same branch. Before pushing, you want to ensure you have the latest code.

Commands :

$ git checkout contact-form

$ git pull origin contact-form

$ git push origin contact-form

Task 5: Resolve Merge Conflicts and Push " Scenario: After pulling, you hit a conflict in style.css that you and your teammate edited. You fix it manually.

Commands :

$ git add Style.css

$ git commit -m "Resolve merge conflict in style.css"

$ git push origin contact-form

Everything up-to-date

Task 6: Initializing and Committing a Project Scenario-Based Question: You've just created a project directory and a couple of files. What Git commands would you use to start tracking the project and save your initial version?

Commands :

$ cd newproject

$ git init

$ git checkout -b main-form

Switched to a new branch 'main-form'

$ git add .

$ git commit -m "Initial commit"

Task 7: Connecting Local Repository to GitHub Scenario-Based Question: You've completed your local project setup and want to upload it to a new GitHub repository. Which Git commands will you use to connect the remote and push the changes?

Commands :

$ git remote add origin https://github.com/spoorthib008/HTML.git

$ git push -b origin main

Task 8: Creating and Switching to a New Feature Branch Scenario-Based Question: Your team lead has asked you to develop a new login feature without disturbing the main code. What Git commands should you use to create and switch to a new branch?

Commands :

$ git status

$ git checkout -b login-feature

Task 9: Temporarily Saving Work in Progress Scenario-Based Question: You were working on a new feature but suddenly need to switch branches to fix a bug. How do you temporarily save your work without committing?

Commands :

$ git stash

$ git checkout bugfix-branch

$ git checkout your-feature-branch

$ git stash pop

Task 10: Merging Feature Branch into Main Branch Scenario-Based Question: You completed a feature in a separate branch and now need to combine it with the main branch after verifying the changes. Which Git commands will help you inspect and perform this merge

Commands :

$ git checkout main

$ git pull origin main

$ git merge login-feature

$ git push origin main