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:

\$ mkdir PortfolioWebsite

\$ 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-us

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"

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 branch

\$ git checkout contact-us

\$ git remote origin "url"

\$ git pull origin contact-us

\$ git push origin contact-us

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 "Add to contact-us "

\$ git push origin contact-us

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:

\$ mkdir newproject

\$ cd newproject

\$ git init

\$ git checkout -b feature/version1.0

\$ 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 "url"

\$ git pull origin main

\$ git push 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 feature/version2.0

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 log-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