**Task 1: Initialize a Git Repository “Scenario: You just created a new project folder called Portfolio Website. 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** " **Scenario: You created the HTML form and want to save it with a descriptive message.**

**Commands:**

$ git status

**Task 4: Pull Before Push to Avoid Conflicts**" **Scenario: 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