



## Task 1: Initialize a Git Repository

### " Scenario:

You just created a new project folder called `PortfolioWebsite`. You want to start tracking it with Git.

### TASK-1 :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.

### TASK-2: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.

### TASK-3:COMMANDS

```
touch index.html style.css Contact-Us.html  
git add .  
git commit -m "Add Contact-Us html form feature"
```



## 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.

### TASK-4:COMMANDS

```
git remote add origin https://github.com/Akhilareddydasari/PortfolioWebsite.git  
Git pull origin contact-US  
git push -u 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.

### TASK-5:COMMANDS

```
git add style.css  
git commit -m "Resolve merge conflicts in style.css"
```

**git push**

## **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?

#### **TASK-6:COMMANDS**

**mkdir ProjectName**

**cd ProjectName**

**git init**

**touch index.html style.css**

**git add .**

**git commit -m "Initial commit with basic structure"**

## **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?

#### **TASK-7:COMMANDS**

**git remote add origin <https://github.com/Akhilareddydasari/Material.git>**

**git branch -M main**

**git push -u 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?

#### **TASK-8:COMMANDS**

**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?

**TASK-9:COMMANDS**

`git stash`

`git checkout bug-fix`

`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?

**TASK-10:COMMANDS**

`git checkout main`

`git pull origin main`

`git merge login-feature`

`git push origin main`