

Task 1 – Task 5 can be seen in PortfolioWebsite Repository

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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?

```
mkdir project-folder
```

```
cd project-folder
```

```
git init
```

```
git add .
```

```
git commit -m "Initial commit"
```

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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?

Create a new repo and copy URL

```
git remote add origin URL
```

```
git push -u origin branch_name
```

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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?

```
git checkout -b name_of_branch
```

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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?

```
git stash
```

```
git checkout bugfix/branch-name
```

```
git checkout feature_branch_name
```

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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?

`git checkout main`

`git pull origin main`

`git diff main..(working_branchname)`

`git merge branchname`

`git push origin main`