

GitHub Exercises

1. Project Initialization:

- a. Initialized a Git repository locally:

```
mkdir sample-project
```

```
cd sample-project
```

```
git init
```

- b. Created a .gitignore file to exclude unnecessary files, if needed:

```
echo "node_modules/" > .gitignore
```

- c. Added initial files and commit:

```
touch initial_file.txt
```

```
git add .
```

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

- d. Created a new repository on GitHub named SampleProject.

- e. Linked the local repository to the GitHub repository using the command:

```
git remote add origin https://github.com/AbhiRitesh/SampleProject.git
```

- f. Push the initial commit to GitHub:

```
git branch -M main
```

```
git push -u origin main
```

2. Feature Addition and Branch Management:

- a. Created and updated the README.md file:

```
echo "# Sample Project" > README.md
```

```
echo "This project serves as a foundation for the Git and GitHub workflow training." >> README.md
```

- b. Create a new branch for the feature and added README.md to it:

```
git checkout -b feature/update-readme
```

```
git add README.md
```

```
git commit -m "Add README.md with project introduction"
```

```
git push -u origin feature/update-readme
```

3. Merge Changes:

`git checkout main`

`git merge feature/update-readme`

`git push origin main`

4. Branch Cleanup:

a. Delete the feature branch locally:

`git branch -d feature/update-readme`

b. Delete the feature branch remotely:

`git push origin --delete feature/update-readme`