

Create a directory named "project report"

```
mkdir project report
```

Create another directory named "git_project_report"

```
mkdir git_project_report
```

Change directory into "git_project_report"

```
cd git_project_report
```

Initialize a new Git repository with default branch "main"

```
git init -b main
```

Set the global Git username

```
git config --global user.name "jsakshatha"
```

Set the global Git email

```
git config --global user.email "jsakshatha.shettigar@gmail.com"
```

Create a file named content.txt and add initial content

```
echo " lets frame the syllabus or the content" > content.txt
```

Check the status of the Git repository (shows untracked/modified files)

```
git status
```

Add the content.txt file to staging

```
git add content.txt
```

Commit staged changes with a message

```
git commit -m "first commit"
```

Add remote repository URL named "origin"

```
git remote add origin https://github.com/jsakshatha/git\_project\_report.git
```

Push local main branch to remote origin and set upstream tracking

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

Add another file named newfile.txt in main branch with content

```
echo "adding new file to main branch" > newfile.txt
```

Add the newfile.txt to staging

```
git add newfile.txt
```

Commit changes with a message

```
git commit -m "added new file in main branch"
```

Push committed changes to remote main branch

```
git push origin main
```

Create an annotated tag v1.0 with a message

```
git tag -a v1.0 -m "sucessfully pushed newfile to the github"
```

List all branches

```
git branch
```

Create a new branch called branch1

```
git branch branch1
```

List branches (confirm creation)

```
git branch
```

Switch to branch1

```
git checkout branch1
```

Create intro.txt file with content in branch1

```
echo "introduction of the project" > intro.txt
```

Add intro.txt to staging

```
git add intro.txt
```

Commit changes on branch1 with a message

```
git commit -m "added intro file in branch1"
```

Push branch1 to remote

```
git push origin branch1
```

Create annotated tag v1.1 on branch1 commit

```
git tag -a v1.1 -m "created branch1 and added new file intro"
```

List all tags

```
git tag
```

Switch back to main branch

```
git checkout main
```

Merge branch1 into main branch

```
git merge branch1
```

Create annotated tag v1.2 after merge

```
git tag -a v1.2 -m "one file from b1 is merged with main branch"
```

List tags after merge

```
git tag
```

Push all tags to remote repository

```
git push origin --tags
```

Create final.txt with content on main branch

```
echo "this is the final version of the project" > final.txt
```

Add final.txt to staging area

```
git add final.txt
```

Commit changes with a message

```
git commit -m "added final file"
```

Push changes to remote main branch

```
git push origin main
```

Create annotated tag v1.3 marking final version

```
git tag -a v1.3 -m "final version of the project and pushed to github"
```

List all tags one last time

```
git tag
```

Push all tags to remote again

```
git push origin --tags
```

In []: