

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 []: