Assignment 1

Commands

Tasks To Be Performed:

- 1. Based on what you have learnt in the class, do the following steps:
- a. Create a new folder → Ans : mkdir gitAssignment1
- b. Put the following files in the folder \bullet Code.txt \bullet Log.txt \bullet Output.txt Ans : Initialize git \rightarrow git init Create files \rightarrow touch Code.txt Log.txt Output.txt
- c. Stage the Code.txt and Output.txt files git add Code.txt Log.txt Output.txt
- d. Commit them

Ans: git commit -m "Initial commit"

e. And finally push them to GitHub

Ans : git push -u origin main

Assignment 2

1. Create a Git working directory with feature1.txt and feature2.txt in the master branch

Ans:

mkdir assignment2 cd assignment2/ touch feature1.txt feature2.txt git add * git commit -m "Initial commit"

2. Create 3 branches develop, feature1 and feature2 Ans

git branch develop git branch feature1 git branch feature2

- 3. In develop branch create develop.txt, do not stage or commit it touch develop.txt
- 4. Stash this file and check out to feature1 branch

Ans : git stash -u git checkout feature1

- 5. Create new.txt file in feature1 branch, stage and commit this file touch new.txt git add new.txt git commit -m "feature1 commit"
- 6. Checkout to develop, unstash this file and commit git checkout develop git stash pop

Assignment 3

1. Create a Git working directory, with the following branches: ● Develop ● F1 ● f2

Ans:

cd assignment3
git init
git branch develop f1 f2
git branch develop
git checkout -b develop
git checkout -b f1
git checkout -b f2

2. In the master branch, commit main.txt file

Ans: touch main.txt git add main.txt git commit -m "master commit"

3. Put develop.txt in develop branch, f1.txt and f2.txt in f1 and f2 respectively

```
git checkout develop
git checkout -b develop
touch develop.txt
git add develop.txt
git commit -m "develop commit"
git checkout -b f1
touch f1.txt
git add f1.txt
git commit -m "f1 commit"
git checkout -b f2
git checkout f2
touch f2.txt
git add f2.txt
git add f2.txt
git commit -m "f2 commit"
```

4. Push all these branches to GitHub

```
git push -u origin develop
git push -u origin 1
git push -u origin f2
```

- 5. On local delete f2 branch git branch -d f2
- 6. Delete the same branch on GitHub as well git push origin --delete f2

Assignment 4

1.Put master.txt on master branch, stage and commit Ans :

mkdir assignment4 cd assignment4 git init touch master.txt git add master.txt git commit master.txt 2. Create 3 branches: public 1, public 2 and private

Ans

git branch public1 git branch public2 git branch private

3. Put public1.txt on public 1 branch, stage and commit

Ans:

git checkout public1 touch public1.txt git add public1.txt git commit public1.txt -m "Public1 commit"

- 4. Merge public 1 on master branch git checkout master git merge public1
- 5. Merge public 2 on master branchAns:git merge public2
- 6. Edit master.txt on private branch, stage and commit

vi master.txt git add master.txt git commit master.txt -m "Edit 1 commit"

7. Now update branch public 1 and public 2 with new master code in private Ans:

git checkout public1 git merge master git checkout public2 git merge master 8. Also update new master code on master

Ans: git fetch origin

9. Finally update all the code on the private branch git merge privatebranch

Assignment 5

Ans:

Git workflow consists of master, release, develop, feature and hotfix branch.

Create a feature git checkout develop git checkout -b feature1

Complete the feature

git checkout develop git merge feature/1 git branch -d feature1

Create a release and complete the release

git checkout develop git checkout -b release1

git checkout master git merge release1 git tag -a v1.0 git checkout develop git merge release1

Hotfix to be delivered

git checkout master git checkout -b hotfix/issue1 touch urgent.txt git add * git commit -m "Hotfix" git push origin master

git checkout master git merge hotfix/issue1 git tag -a hotfix-v1 git checkout develop git merge hotfix/issue1 git branch -d hotfix/issue1