Git Assignment

1. How do you initialize a new Git repository named "project1" on your local machine?

Ans : Git init

1. How do you add a new file named "index.html" to the "project1" repository?

Ans: Touch index.html

1. How do you stage the changes made to "index.html" for committing?

Ans. Git add index.html or Git add .

1. How do you commit the changes made to "index.html" with a commit message of "Add index.html"?

Ans: Git commit -m “Add index.html”

1. How do you view the commit history of the "project1" repository?

Ans: Git log

1. How do you create a new branch named "feature-branch" in the "project1" repository?

Ans. Git branch feature-branch

1. How do you switch to the "feature-branch" in the "project1" repository?

Ans: Git checkout feature-branch

1. How do you make changes to "index.html" in the "feature-branch"?

Ans. a.Edit the file in a text editor (OR)

b. nano index.html

Git add .

Git Commit –m “ added text”

Git push –u origin main

1. How do you stage and commit the changes made in the "feature-branch" with a commit message of "Update index.html in feature branch"?

Ans: Git commit -m “Update Index.html in feature branch”

1. How do you switch back to the main branch in the "project1" repository?

Ans: Git checkout main

1. How do you merge the changes from the "feature-branch" into the main branch?

Ans: Git merge feature-branch

1. How do you resolve any merge conflicts that occur during the merge process?

Git status

Open conflicted files and edit to resolve conflicts manually

Git add .

Git merge

Git Commit

Git push

1. How do you view the changes introduced by the merge commit?

GIT log

Git show

1. How do you create a new tag named "v1.0" for the current commit in the "project1" repository?

Git tag v1.0

OR

Git tag –a v1.0 “ Version 1.0 release”

1. How do you push the "project1" repository to a remote repository named "origin"?

Git push origin main

1. How do you clone the "project1" repository from a remote repository to another machine?

Git Clone https://github.com/Username/Project1.git

1. How do you fetch the latest changes from the remote repository to your local "project1" repository?

Git fetch origin

1. How do you pull the latest changes from the remote repository into your current branch in the "project1" repository?

Git pull origin main

1. How do you create a new branch named "bug-fix" in the "project1" repository based on a specific commit?

Git checkout –b bug-fix

1. How do you revert the last commit made in the "project1" repository?

Git revert HEAD

Git push origin main