Git Assignment

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

Solution:

Create a folder/project named "project1"

and right click inside the folder and open git bash

type the commamd "git init" to initiate the new git repository

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

Solution:

touch index.html

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

Solution:

git add.

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

Solution:

git commit -m "Add index.html"

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

Solution:

git log

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

Solution:

git branch feature-branch

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

Solution:

git checkout feature-branch

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

Solution:

vi index.html

make changes and save by pressing Esc key and :wq

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"?

Solution:

git add.

git commit -m "Update index.html in feature branch"

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

Solution:

git checkout main

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

Solution:

git merge feature-branch

git add.

git commit "merging"

git push origin main

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

Solution:

Open and resolve conflicts manually

Git add.

Git merge

Git commit

Git push origin main

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

Solution:

Git show

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

Solution:

Git tag v1.0

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

Solution:

Git push origin main

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

Solution:

Git clone “url”

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

Solution:

git fetch origin

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

Solution:

git pull origin feature-branch

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

Solution:

git checkout -b bug-fix project1

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

Solution:

git reset head ~1