Git Assignment

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

git init

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

git add index.html

git commit -m "Add index.html file"

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

git add index.html

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

git commit -m "Add index.html file"

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

git log

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

git branch feature-branch

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

git checkout feature-branch

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

Make changes in a file and save it

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"?

git add index.html

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

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

git checkout main

git switch main

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

git merge feature-branch

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

Manually changing the file and staging and commiting the merge.

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

Using git show <merge hash>

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

git tag v1.0

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

#git remote add origin https://github.com/aocheret/proj1

git push origin –all

git push origin --tags

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

git clone https://github.com/aocheret/proj1

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

git fetch origin

#git log master..origin/feature-branch #review changes

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

git pull origin <branch-name>

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

git branch bug-fix <commit-hash>

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

git revert <branch-name>