Git Assignment

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

cd

mkdir project1

cd project1

git init

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

cd project1

echo “<!DOCTYPE html><html><head><title>My Project</title></head><body><h1>hello, world!</h1></body></html>”

>Index.html

git add index.html

git commit -m “Add index.html file”

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

Echo “<h1>first index file added</h1>” >> index.html

git add index.html

git status

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”

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?

cd path/to /project1

git branch feature-branch

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

cd path/to /project1

git branch feature-branch

git switch feature-branch

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

git switch feature-branch

echo “<h1> changes</h1>” >> index.html

git add index.html

git commit -m “update index.html with changes”

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 switch feature-html

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?

cd path/to/project1

git switch main

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

git checkout main

git merge feature-branch

git add <file>

git commit -m “merge changes”

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

git status

after editing and removing the conflicts, stage and commit

git add index.html

git commit -m “resolve”

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

git log --merges

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

git tag v1.0

git push origin v1.0

git tag

1. How do you push the "project1" repository to a remote repository named "origin"?
2. How do you clone the "project1" repository from a remote repository to another machine?
3. How do you fetch the latest changes from the remote repository to your local "project1" repository?
4. How do you pull the latest changes from the remote repository into your current branch in the "project1" repository?
5. How do you create a new branch named "bug-fix" in the "project1" repository based on a specific commit?
6. How do you revert the last commit made in the "project1" repository?