Git Assignment

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

Create new repository through browser, create folder in local machine and open in git bash then exec command

git init

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

echo "# project1" >> index.html

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"

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 -m 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"?

Open file – vi index.html and update

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 status git add index.html

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

git push origin HEAD

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

git checkout main

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

git pull origin main

git merge feature-branch

git push origin main

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

git pull –rebase

remove the conflicts and commit the changes then merge to main

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

git log –p

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 --tags

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

git remote set-url origin <https://github.com/rolls65/origin.git>

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

git clone

Using ssh/html copy that url from the git browser

Create folder

git clone [git@github.com:rolls65/project1.git](mailto:git@github.com:rolls65/project1.git)

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

git pull –rebase

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

git pull –rebase origin/main

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 reset –soft HEAD~1