Git Assignment

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

cd /OneDrive/Documents/Arun/ITC/GIT

git init project1

cd project1

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

touch 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"?

git add index.html

git merge 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"?

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

git push --set-upstream origin feature-branch

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 merge feature-branch

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

git status

try to solve if any conflicts manually by editing the conflict files

git add file\_name(once conflicts are resolved )

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

git log

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 origin1 https://github.com/ArunChaturvedula2906/project1.git

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

git clone path\_url

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

git fetch origin

git merge origin/master

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

git pull origin remote repository

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

git branch -m bug-fix

git checkout –b bug-fix a3c8b19

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

git revert head