Git Assignment

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

Can create a folder directly with the name “project1” or using terminal :

mkdir project1

cd project1

git init

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

create a file index.html in project1 folder and git add index.html

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

stage the changes: git add index.html

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

Git commit -m “Add index.html”

5. How do you view the commit history of the "project1" repository? Git log

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

Git branch feature-branch

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

Git checkout feature-branch

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

Switch to feature-branch using checkout, make changes in the file and add changes to git using git add .

Git checkout feature-branch

git add index.html

git commit -m "changes made in index.html at feature-branch"

9. 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 checkout feature-branch

Git add index.html

Git commit -m “ update index.html in feature branch”

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

Git checkout main

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

Git merge feature-branch

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

check the status to see any conflicts in file.Edit the file to fix the conflicting changes,

then git add and then git commit to commit the changes.

git status

manually edit the conflicts in file

git add filename

git commit

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

Git show

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

Git tag v1.0

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

git remote add origin <https://github.com/cherukuribh/origin.git>

git branch -M main

git push -u origin main

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

Git clone <https://github.com/cherukuribh/project1.git>

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

Git fetch origin

git status

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

Git pull origin branch-name

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

git checkout -b bug-fix 14c9cab8606979bddf59295860c77653ff4a50bf

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

git revert HEAD