Git Assignment

1. How do you initialize a new Git repository named "project1" on your local machine?
   1. mkdir project1
   2. cd project1
   3. git init
2. How do you add a new file named "index.html" to the "project1" repository?
   1. touch index.html
3. How do you stage the changes made to "index.html" for committing?
   1. git add index.html
4. How do you commit the changes made to "index.html" with a commit message of "Add index.html"?
   1. git commit –m “adding index.html”
5. How do you view the commit history of the "project1" repository?
   1. git log
6. How do you create a new branch named "feature-branch" in the "project1" repository?
   1. git branch feature-branch
7. How do you switch to the "feature-branch" in the "project1" repository?
   1. Git checkout feature-branch
8. How do you make changes to "index.html" in the "feature-branch"?
   1. Echo “Hello World” >> index.html
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"?
   1. Git add index.html
   2. Git commit –m “Updated index.html in feature branch”
10. How do you switch back to the main branch in the "project1" repository?
    1. Git checkout main
11. How do you merge the changes from the "feature-branch" into the main branch?
    1. Git merge feature-branch
12. How do you resolve any merge conflicts that occur during the merge process?
13. How do you view the changes introduced by the merge commit?
    1. Git log –merge
    2. Cat index.html
14. How do you create a new tag named "v1.0" for the current commit in the "project1" repository?
    1. Git tag v1.0
15. How do you push the "project1" repository to a remote repository named "origin"?
    1. git remote add origin <https://github.com/khalidpk4475/origin.git>
    2. Git push –u origin main
16. How do you clone the "project1" repository from a remote repository to another machine?
    1. Git clone https://github.com/khalidpk4475/origin.git
17. How do you fetch the latest changes from the remote repository to your local "project1" repository?
    1. Git fetch https://github.com/khalidpk4475/origin.git
18. How do you pull the latest changes from the remote repository into your current branch in the "project1" repository?
    1. Git pull origin main
19. How do you create a new branch named "bug-fix" in the "project1" repository based on a specific commit?
    1. git branch bug-fix 9fc56765cddbe072238a38f7242e74147a1d2dc3
20. How do you revert the last commit made in the "project1" repository?
    1. Git revert HEAD