Day 5 Assignment

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Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

Ans:

1. Choose the directory
Open your terminal and navigate to that directory.

2. Initialize the repository
Use the ".git init" command in your terminal. This creates a hidden folder called .git which stores the version control information.
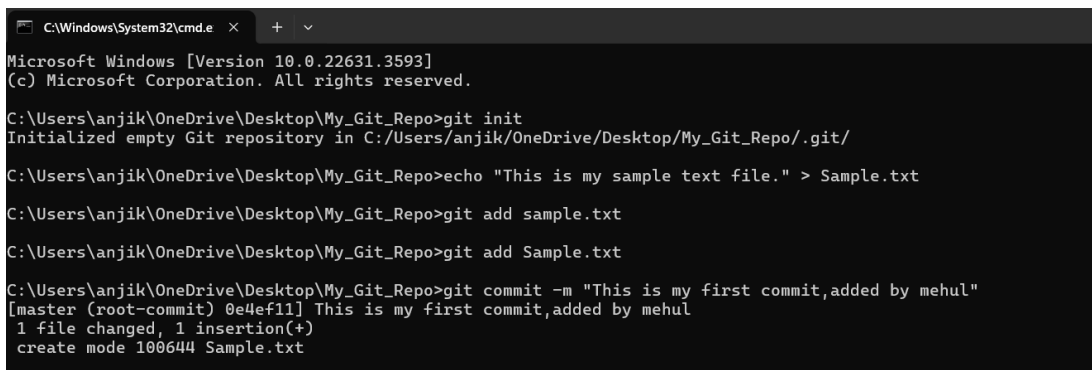
3. Create and add a text file
Create a new text file using your preferred text editor (e.g. Simple.txt). Add some content to the file (e.g., "This is my first commit").

4. Stage the file for commit
Use the "git add ." command.It will add files/folders from current folder to the cache / local git repository / stage.This action is known as staging.

5. Commit the changes
Use the "git commit -m "any commit related message"" command to create a snapshot of the current state of your files. Include a descriptive message to explain what changes you made.

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Microsoft Windows [Version 10.0.22631.3593]
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C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git init
Initialized empty Git repository in C:/Users/anjik/OneDrive/Desktop/My_Git_Repo/.git/

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>echo "This is my sample text file." > Sample.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git add sample.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git add Sample.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git commit -m "This is my first commit,added by mehul"
[master (root-commit) 0e4ef11] This is my first commit,added by mehul
 1 file changed, 1 insertion(+)
 create mode 100644 Sample.txt
```

Ans:

1. Create and Switch to the new branch:

Use the "git branch Feature" command to create branch.

Then use "git checkout feature"command. This command switches you to a different branch.

2. Make changes in the 'feature' branch:

Edit your existing file (e.g., test.txt) or create a new file specific to the feature you're working on.

3. Stage and Commit the changes:

Use "git add ." command.It will add files/folders from current folder to the cache / local git repository / stage.

And then use "git commit -m "Your commit message here" command.

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Microsoft Windows [Version 10.0.22631.3593]
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C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git branch feature

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git checkout feature
Switched to branch 'feature'

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>echo "This is the change done in feature branch in test text file." >> test.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git add test.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git commit -m "Add changes to test text file in feature branch."
[feature bca30b4] Add changes to test text file in feature branch.
 1 file changed, 1 insertion(+)
 create mode 100644 test.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>
```

Ans:

1)Ensure you are on the master branch:
    git checkout master

2) Create a new branch named 'hotfix' and switch to it
    git checkout -b hofix

3) Add the changes to the staging area
    git add Temp.txt

4)Commit the changes:
    git commit –m"Apply hotfix to Temp text file"

5) Switch back to the main branch
    git checkout master

6)Merge the 'hotfix' branch into the main branch:
    git merge hotfix

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C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git checkout master
Already on 'master'
D       Simple.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git checkout -b hotfix
Switched to a new branch 'hotfix'

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>echo "This is my hotfix in Temp text file" >> Temp.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git add Temp.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git commit -m "Apply hotfix in Temp text file"
[hotfix 0e09491] Apply hotfix in Temp text file
 1 file changed, 1 insertion(+)
 create mode 100644 Temp.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git checkout master
Switched to branch 'master'
D       Simple.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>git merge hotfix
Updating 918da7e..0e09491
Fast-forward
 Temp.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 Temp.txt

C:\Users\anjik\OneDrive\Desktop\My_Git_Repo>
```