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Git Assignment

Command for creating the repository from Local machine

```
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training> mkdir AssessmentRepo

      Directory: C:\Users\VSMPRS\OneDrive\Desktop\NT Training

Mode                 LastWriteTime         Length   Focus folder in explorer (ctrl + click)
----                 -------------         ------
d----          2/17/2025 10:25 PM                   AssessmentRepo

● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training> cd AssessmentRepo
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git init
  Initialized empty Git repository in C:/Users/VSMPRS/OneDrive/Desktop/NT Training/AssessmentRepo/.git/
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git add .
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git commit -m "first commit"
  [main (root-commit) 8f911c6] first commit
   1 file changed, 0 insertions(+), 0 deletions(-)
   create mode 100644 README.md
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git branch -M main
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git branch
 * main
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git remote add origin https://github.com/AnshumanMahajan06/Anshuman_Mahajan_Ass_Repo.git
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git push origin main
  Enumerating objects: 3, done.
  Counting objects: 100% (3/3), done.
  Writing objects: 100% (3/3), 216 bytes | 216.00 KiB/s, done.
  Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
  To https://github.com/AnshumanMahajan06/Anshuman_Mahajan_Ass_Repo.git
   * [new branch]      main -> main
○ PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> 
```

git add command stages the file for next commit

```
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git status
  On branch main
  Untracked files:
    (use "git add <file>..." to include in what will be committed)
          index.html

  nothing added to commit but untracked files present (use "git add" to track)
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git add index.html
```

git checkout –b <new branch name> command is used to create the new branch

```
 PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git checkout -b branch2
 Switched to a new branch 'branch2'
 PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git branch
 * branch2
   main
```

Making changes in newily created branch i.e branch2

```
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git status
  On branch branch2
  Changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
          modified:   README.md

  no changes added to commit (use "git add" and/or "git commit -a")
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git add .
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git commit -m "branch added"
  [branch2 18a6c2f] branch added
   1 file changed, 1 insertion(+)
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git push origin branch2
  Enumerating objects: 5, done.
  Counting objects: 100% (5/5), done.
  Writing objects: 100% (3/3), 272 bytes | 136.00 KiB/s, done.
  Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
  remote:
  remote: Create a pull request for 'branch2' on GitHub by visiting:
  remote:      https://github.com/AnshumanMahajan06/Anshuman_Mahajan_Ass_Repo/pull/new/branch2
  remote:
  To https://github.com/AnshumanMahajan06/Anshuman_Mahajan_Ass_Repo.git
   * [new branch]      branch2 -> branch2
```

Again creating a new branch i.e branch3

```
● PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git checkout -b branch3
  Switched to a new branch 'branch3'
```

Merging branch3 with branch2 at present I am on branch3

```
  [new branch]      branch3 -> branch3
⊗ PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git merge branch2
```

Pulling the changes from remote to local machine

```
○ PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git pull origin main
```

git log command basically provide all project history

```
PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git log
commit 2ba8134580256fbb84290439786c62facc576dcc (HEAD -> branch3, origin/branch3)
Author: AnshumanMahajan06 <nmanshuman06@gmail.com>
Date:   Mon Feb 17 22:55:44 2025 +0530

    branch3 updated

commit 8476cca6f51a9fc1f7c0c4d998c2e5ab592db32f (origin/main, main)
Author: AnshumanMahajan06 <nmanshuman06@gmail.com>
Date:   Mon Feb 17 22:38:32 2025 +0530

    branch added

commit 8f911c658021c021069842936342f7b9d5dbed63
Author: AnshumanMahajan06 <nmanshuman06@gmail.com>
Date:   Mon Feb 17 22:27:32 2025 +0530

    first commit
```

This command is used to display the state of the working directory and the staging area.

```
PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

nothing added to commit but untracked files present (use "git add" to track)
```

To reset the latest commit we use git reset command

```
PS C:\Users\VSMPRS\OneDrive\Desktop\NT Training\AssessmentRepo> git reset
Unstaged changes after reset:
M       README.md
```