

GIT Assignment 1

1. Create a New Repository

Created- https://github.com/i-yashvi/NucleusTeq_Training

```
BIIT@DESKTOP-MT1T055 MINGW64 ~ (master)
● $ cd Desktop

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop (master)
● $ git clone https://github.com/i-yashvi/NucleusTeq_Training.git
Cloning into 'NucleusTeq_Training'...
warning: You appear to have cloned an empty repository.

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop (master)
● $ cd NucleusTeq_Training

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
○ $
```

2. Create a New File

Created- https://github.com/i-yashvi/NucleusTeq_Training/blob/main/index.html

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ touch index.html

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git add index.html

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git commit -m "File Created"
[main (root-commit) 8ae49dc] File Created
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 218 bytes | 109.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/i-yashvi/NucleusTeq_Training.git
* [new branch]      main -> main
```

3. Create a Branch

Created- https://github.com/i-yashvi/NucleusTeq_Training/branches

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git checkout -b new_branch
Switched to a new branch 'new_branch'

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (new_branch)
● $ git branch
main
* new_branch
```

4. Make Changes in the New Branch

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (new_branch)
● $ echo "<h1>HELLO</h1>" > index.html

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (new_branch)
● $ git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (new_branch)
● $ git commit -m "Changes made in new branch"
[new_branch 98b3529] Changes made in new branch
1 file changed, 1 insertion(+)
```

5. Create Another Branch (Optional)

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (new_branch)
● $ git checkout -b another_branch
Switched to a new branch 'another_branch'

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (another_branch)
● $ git branch
* another_branch
main
new_branch
```

6. Merge Branches

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (another_branch)
● $ git checkout new_branch
Switched to branch 'new_branch'

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (new_branch)
● $ git merge another_branch
Updating 98b3529..274544a
Fast-forward
 index.html | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

7. Pull Changes from Remote

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git pull origin main
From https://github.com/i-yashvi/NucleusTeq_Training
 * branch          main          -> FETCH_HEAD
Already up to date.
```

8. View Git Log and History

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git log --oneline --graph --all
* 274544a (origin/new_branch, new_branch, another_branch) Changes made in another branch
* 98b3529 Changes made in new branch
* 8ae49dc (HEAD -> main, origin/main) File Created
```

9. Git Status and Staging

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

10. Revert and Reset

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git log --oneline
95549c8 (HEAD -> main) Final changes
8ae49dc (origin/main) File Created

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git revert 95549c8
[main 33e503c] Revert "Final changes-Used revert"
1 file changed, 1 deletion(-)
```

```
BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git log --oneline
33e503c (HEAD -> main) Revert "Final changes-Used revert"
95549c8 Final changes
8ae49dc (origin/main) File Created

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git reset --hard HEAD~1
HEAD is now at 95549c8 Final changes

BIIT@DESKTOP-MT1T055 MINGW64 ~/Desktop/NucleusTeq_Training (main)
● $ git log --oneline
95549c8 (HEAD -> main) Final changes
8ae49dc (origin/main) File Created
```