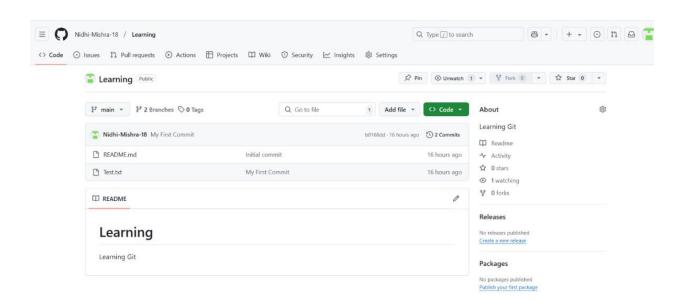
GIT ASSIGNMENT

Objective: The goal of this assignment is to help you get familiar with basic Git commands and workflows, which are commonly used in real-world software development.

- 1. Create a Repository
- 2. Create a new file
- 3. Create a branch
- 4. Make changes in new branch
- 5. Create Another branch
- 6. Merge Branches
- 7. Pull Changes From Remote
- 8. View Git log and history
- 9. Git status and staging
- 10. Revert and reset

1. Create a Repository

Here the name of repository is Learning



2.Create a new file

//clone repository into local

git clone https://github.com/Nidhi-Mishra-18/Learning.git

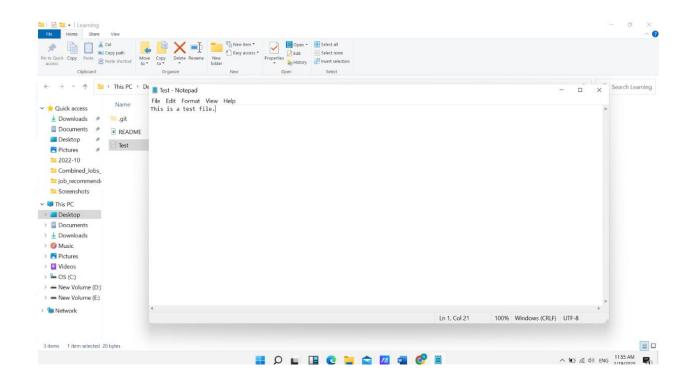
cd Learning

git add Test.txt

git commit -m "My First commit"

//pushing changes to remote

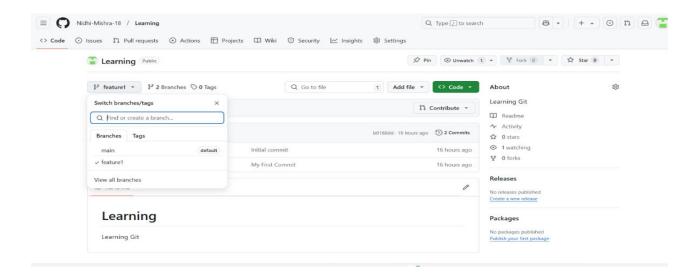
git push origin main



3.Create a branch

//create first branch

git branch feature1



4. Make changes in new branch

//Firstly edit the text file
git checkout feature1
git add Test.txt
git commit -m "Edited File"

//pushing changes to remote

git push origin feature1

```
Widhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (feature1)

Sigit add Test.txt

Widhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (feature1)

Sigit commit -m "Edited file"

[feature1 68897a5] Edited file

1 file changed, 2 insertions(+), 1 deletion(-)

Widhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (feature1)

Sigit push origin feature1

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

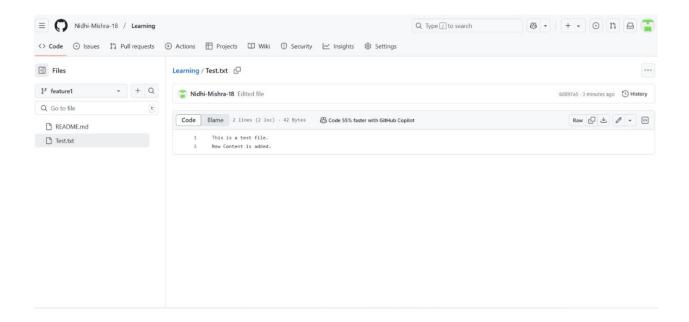
Compressing objects: 100% (5/5), done.

Writing objects: 100% (3/3), 324 bytes | 162.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/Nidhi-Mishra-18/Learning.git

b0168dd..68897a5 feature1 -> feature1
```

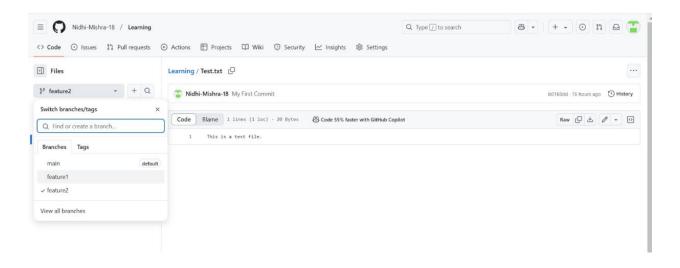


5.Create Another branch

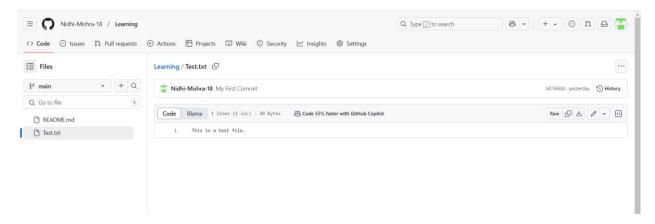
//create second branch

git branch feature2

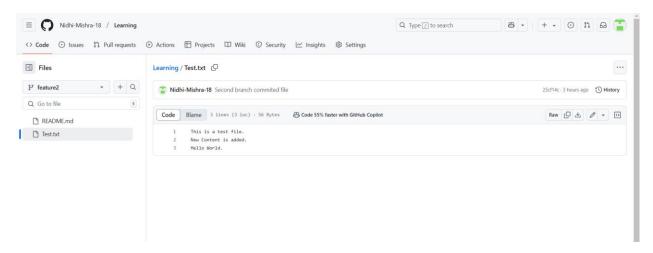
widhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
\$ git branch feature2



//Main branch



//Feature2 branch



6.Merge Branches

```
MINGW64/c/Users/Nichi/Desktop/Git Tutorial/Learning
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Nidhi-Mishra-18/Learning.git
Dol68dd..25cf14c feature2 -> feature2

Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git pull origin feature1

Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git pull origin feature1 -> FETCH_HEAD
Already up to date.
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git pull origin feature1 -> FETCH_HEAD
Already up to date.
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git pull origin feature1

Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git pull origin feature1

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git pull origin feature1

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git pull origin feature1

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git pull origin feature1

Everything up-to-date

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git checkout feature1

Everything up-to-date

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git checkout feature1

Everything up-to-date

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git checkout feature1

Everything up-to-date

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git checkout feature1

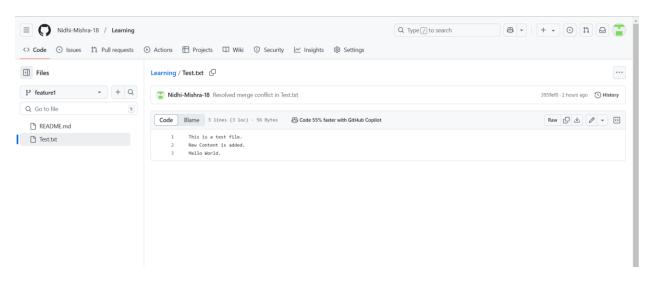
Everything up-to-date

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git checkout feature1

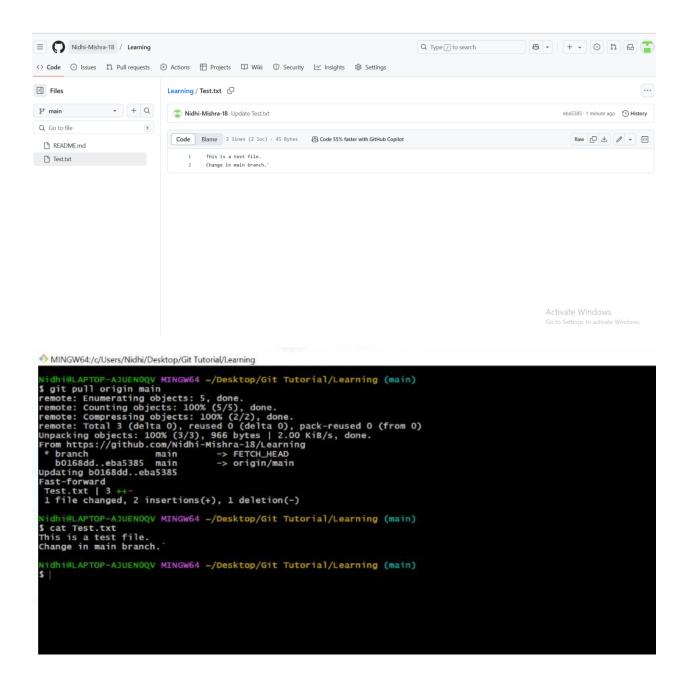
Everything up-to-date

Widhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1|MERGING)
$ git checko
```

```
### A PROMOTOR ADMINISTRY METHOD AS A POSSIBLE POSSIBLE PROTECTION OF THE PROTECTION
```



7.Pull Changes From Remote



8. View Git log and history

//main branch

```
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
$ git log
commit eba53853675532ff300f1915874e9a6f1b39f382 (HEAD -> main, origin/main, origin/HEAD)
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Wed Feb 19 17:25:48 2025 +0530

Update Test.txt

commit b0168dd8691048a18a1d87ebc793450fdeefa5c4
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:48:05 2025 +0530

My First Commit

commit 335ladfb6f9ele6acb2c8ef2ad2211dee0d859bc
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:45:39 2025 +0530

Initial commit
```

//first branch [feature1]

```
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
S git log
commit 359sef07fd256fe186a4762cd2b7896cf5245014 (HEAD -> feature1, origin/feature1)
Author: Nidhi-Mishra-18 onidhimishra18062003@gmail.com>
Date: Wed Feb 19 14:06:22 0225 +0530

Resolved merge conflict in Test.txt

commit bdsc84474f07542887æ975f4c6db52f784fd7f55
Merge: 68897a 25cf14c
Author: Nidhi-Mishra-18 onidhimishra18062003@gmail.com>
Date: Wed Feb 19 13:33:18 2025 +0530

Resolved merge conflict in Test.txt

commit 25cf14cc0b14327789a602d1150aaa4892602a866 (origin/feature2, feature2)
Author: Nidhi-Mishra-18 onidhimishra18062003@gmail.com>
Date: Wed Feb 19 13:13:40 2025 +0530

Second branch commited file

commit 68897a5560d439d79ecd840eee3a0dcd91569e50
Author: Nidhi-Mishra-18 onidhimishra18062003@gmail.com>
Date: Wed Feb 19 12:14:33 2025 +0530

Edited file

commit b0168dd8691048a18a1d87ebc793450fdeefa5c4
Author: Nidhi-Mishra-18 onidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:48:05 2025 +0530

My First Commit

commit 3351adfb6f9e1e6acb2c8ef2ad2211dee0d850bc
Author: Nidhi-Mishra-18 onidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:45:39 2025 +0530

Initial commit
```

//second branch [feature2]

```
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature2)

§ git log
commit 25cf14c0b14327789a602d1150aaa4892602a866 (HEAD -> feature2, origin/feature2)
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Wed Feb 19 13:13:40 2025 +0530

Second branch commited file

commit b0168dd8691048a18a1d87ebc793450fdeefa5c4
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:48:05 2025 +0530

My First Commit

commit 3351adfb6f9e1e6acb2c8ef2ad2211dee0d859bc
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:45:39 2025 +0530

Initial commit
```

9.Git status and staging

//status

```
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (feature2)
$ git status
On branch feature2
nothing to commit, working tree clean
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (feature2)
$ git checkout feature1
Switched to branch 'feature1'
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (feature1)
On branch feature1
nothing to commit, working tree clean
Nidhi@LAPTOP-AJUENOOV MINGW64 -/Desktop/Git Tutorial/Learning (feature1)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
S git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
```

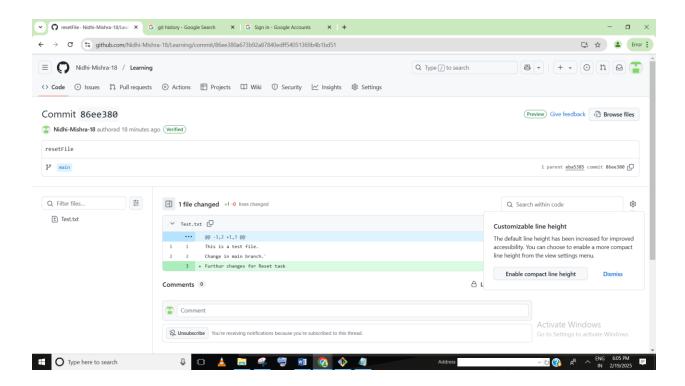
//staging

```
idhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
git add Test.txt
```

10.Revert and reset

//for reset

Adding some content in the file to reset



//git log before reset

```
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (main)
$ git log
commit 86ee380a673b92a87840edff54051369b4b1bd51 (HEAD -> main, origin/main, origin/HEAD)
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Wed Feb 19 17:47:14 2025 +0530

resetFile
commit eba53853675532ff300f1915874e9a6f1b39f382
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Wed Feb 19 17:25:48 2025 +0530

Update Test.txt
commit b01688d8691048a18a1d87ebc793450fdeefa5c4
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:48:05 2025 +0530

My First Commit
commit 3351adfb6f9ele6acb2c8ef2ad2211dee0d859bc
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:45:39 2025 +0530

Initial commit
```

//reset command

```
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)

$ git reset --hard HEAD~1
HEAD is now at eba5385 Update Test.txt
```

//git log after reset

```
Nidhi@LAPTOP-AJUENOQV MINGW64 -/Desktop/Git Tutorial/Learning (main)
$ git log
commit eba53853675532ff300f1915874e9a6f1b39f382 (HEAD -> main)
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Wed Feb 19 17:25:48 2025 +0530

Update Test.txt

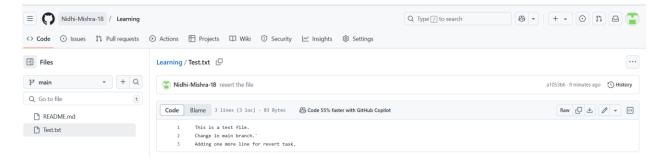
commit b0168dd8691048a18a1d87ebc793450fdeefa5c4
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:48:05 2025 +0530

My First Commit

commit 3351adfb6f9e1e6acb2c8ef2ad2211dee0d859bc
Author: Nidhi-Mishra-18 <nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:45:39 2025 +0530

Initial commit
```

//revert



//git log before revert

```
Nidhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
$ git log
commit al053b60f0865ce26edf42d5aal16dd9c427bfe5 (HEAD -> main, origin/main, origin/HEAD)
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Wed Feb 19 18:01:40 2025 +0530

    revert the file

commit 85ee380a673b92a87840edff54051369b4b1bd51
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Wed Feb 19 17:47:14 2025 +0530

    resetFile

commit eba53853675532ff300f1915874e9a6f1b39f382
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Wed Feb 19 17:25:48 2025 +0530

    Update Test.txt

commit b0168dd8691048a18a1d87ebc793450fdeefa5c4
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:48:05 2025 +0530

    My First Commit

commit 3351adfb6f9ele6acb2c8ef2ad2211dee0d859bc
Author: Nidhi-Mishra-18 < nidhimishra18062003@gmail.com>
Date: Tue Feb 18 19:45:39 2025 +0530

    Initial commit
```

```
Widhi@LAPTOP-AJUENOQV MINGW64 ~/Desktop/Git Tutorial/Learning (main)
S git log --oneline
a1053b6 (HEAD -> main, origin/main, origin/HEAD) revert the file
86ee380 resetFile
eba5385 Update Test.txt
c0168dd My First Commit
3351adf Initial commit
```

//revert

//git log after revert

