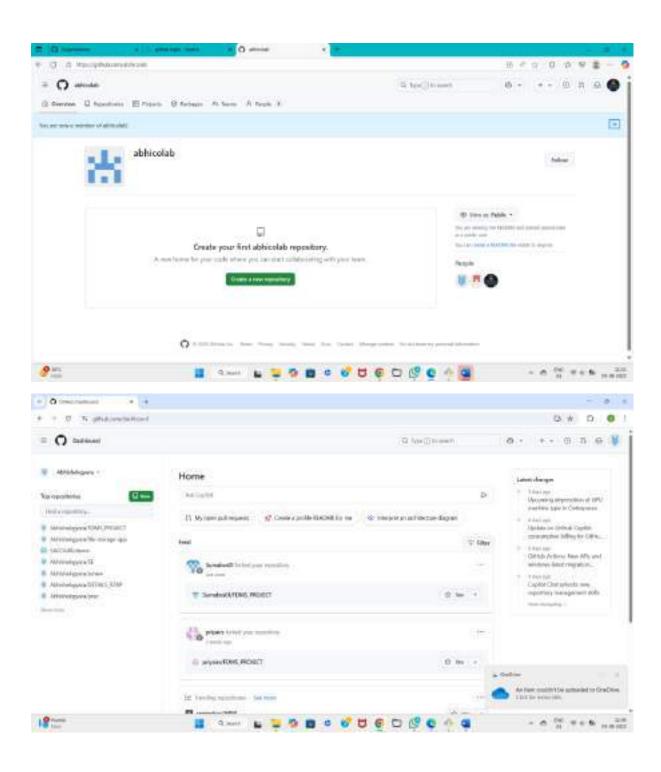
### SE LAB WEEK 4

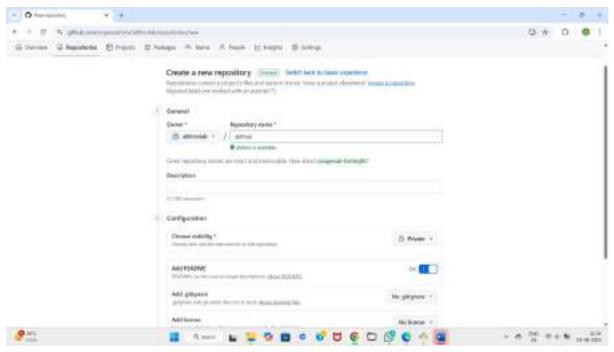
NAME: G. ABHISHEK BHAN

ROLL NO: 23BD1A6793

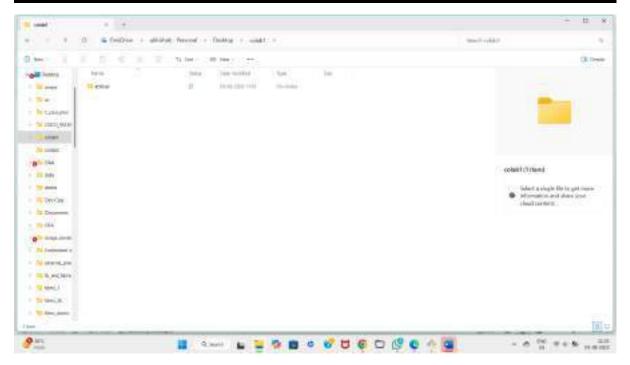
### TASK 1

### **COLLABORATOR 1:**





Abhishek Bhan@LAPTOP-31SMVRRN MINGW64 ~/OneDrive/Desktop/colab1 (master)
\$ git clone https://github.com/abhicolab/abhisai.git
Cloning into 'abhisai'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

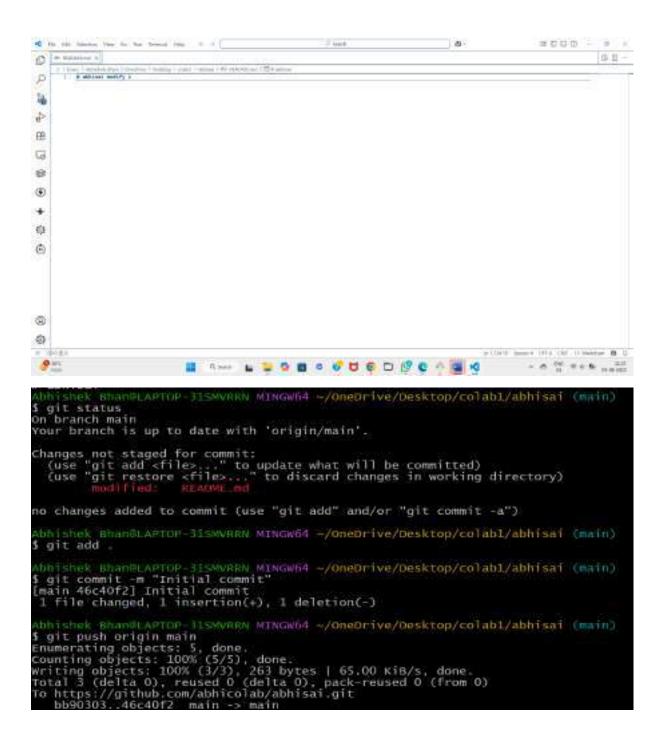


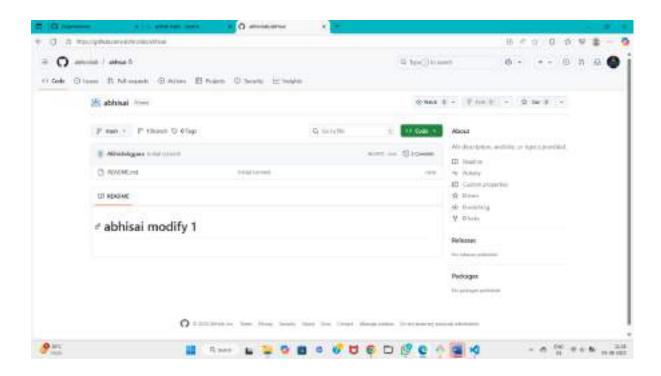
```
Abhishek Bhan8LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/abhisai (main)
$ cd abhisai

Abhishek Bhan8LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/abhisai (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Abhishek Bhan8LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/abhisai (main)
$ ls
README.md
```





### **COLLABORATOR 2:**

```
Abhishek Bhan@LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab2 (master)
$ git clone https://github.com/abhicolab/abhisai.git
Cloning into 'abhisai'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (6/6), done.
```

```
Abhishek BhanGLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/abhisai (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

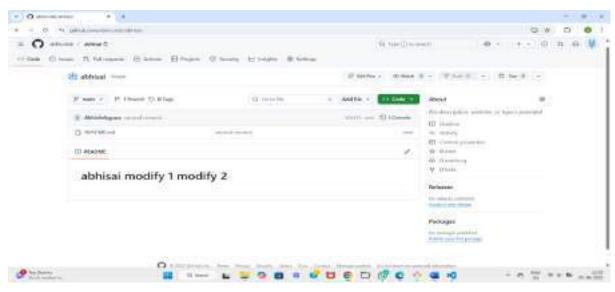
Changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
    modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

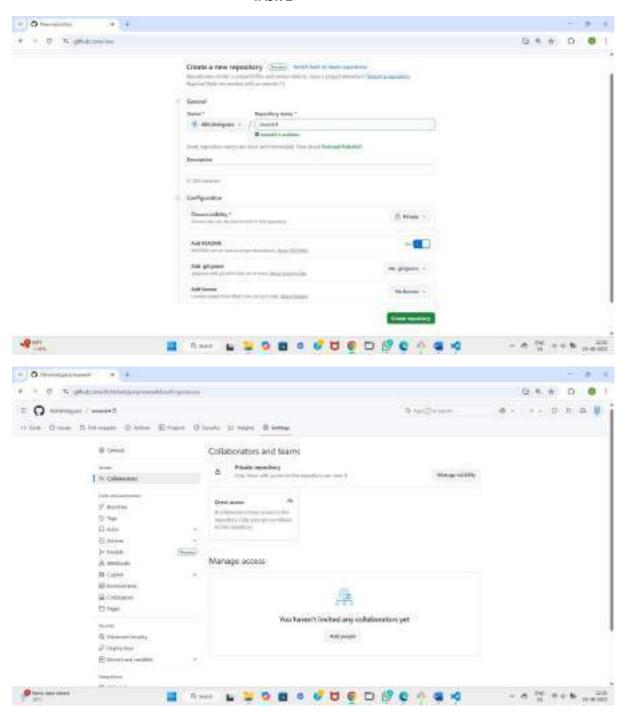
Abhishek BhanGLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/abhisai (main)
$ git add

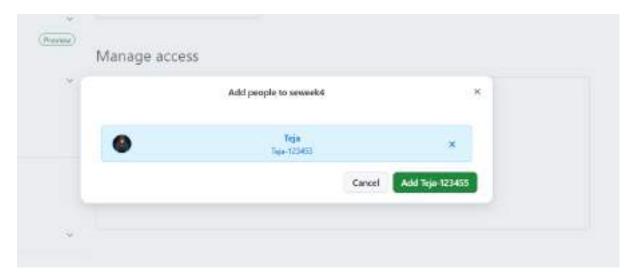
Abhishek BhanGLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/abhisai (main)
$ git commit -m "second commit"
[main 3f3c313] second commit
1 file changed, 1 insertion(+), 1 deletion(-)

Abhishek BhanGLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/abhisai (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 263 bytes | 131.00 KiB/s, done.
Total 3 (delta 0), reused 0 (from 0)
To https://github.com/abhicolab/abhisai.git
    46c40f2.3f3c313 main -> main
```



### TASK 2





```
Abhishek BhanWLAPTOP-31SMVRAN MINGW64 -/OneDrive/Desktop/colab2 (master)
$ git clone https://github.com/Abhishekgyara/seweek4.git
Cloning into 'seweek4'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
```

```
Abhishek Bhan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2 (master)
$ cd seweek4

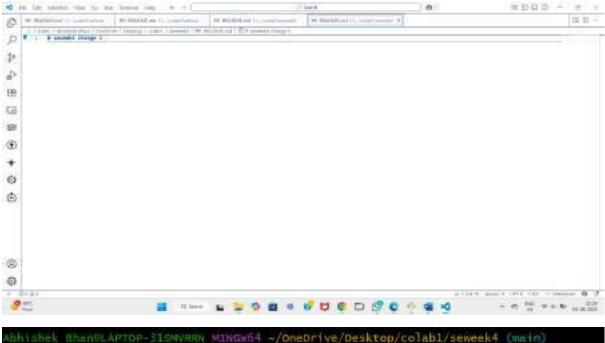
Abhishek Bhan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4 (main)
$ git checkout -b b2

Switched to a new branch 'b2'
```

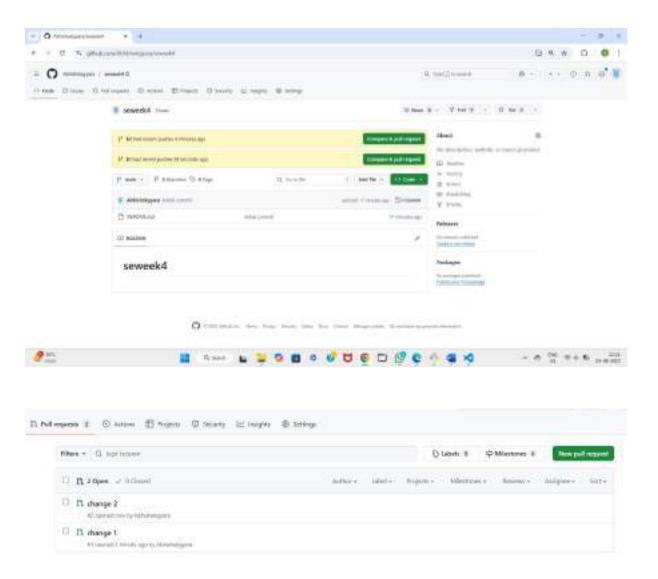
```
NURRN MINGW64 ~/OneDrive/Desktop/colab2/seweek4 (main)
5 git checkout -b b2
Switched to a new branch 'b2'
Abhishek BhayDLAPTOP-31SMVRRN MINGW64 ~/OneDrive/Desktop/colab2/seweek4 (b2)
5 git status
On branch b2
nothing to commit, working tree clean
Abhishek BharWLARTOP-315MVRRN MINGW64 ~/OneDrive/Desktop/colab2/seweek4 (b2)
5 git status
on branch bz
Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

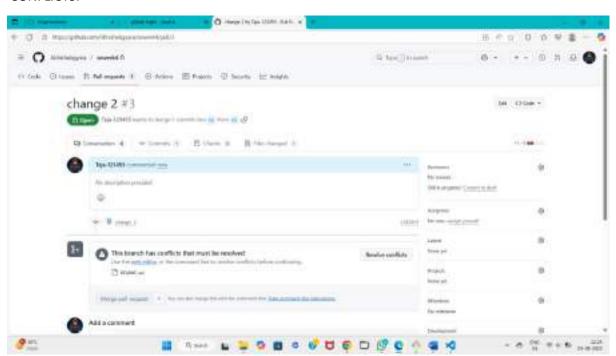
(use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
 Abhishek Bhan0LA0700-31SMVRRN MINGW64 ~/OneOrive/Desktop/colab2/seweek4 (b2)
5 git add .
Ashishek BhanDLAPTOP-315MVRRN MINGWE4 ~/OneDrive/Desktop/colab2/seweek4 (b2)
$ git push origin b2
Total O (delta O), reused O (delta O), pack-reused O (from O)
remote:
remote: Create a pull request for 'b2' on GitHub by visiting:
remote:
                 https://github.com/Abhishekgyara/seweek4/pull/new/b2
remote:
To https://github.com/Abhishekgyara/seweek4.git
 * [new branch]
                           b2 -> b2
Abhishek BhanGLAPTOP-115MVRRN MINGW64 ~/OneDrive/Desktop/colab2/seweek4 (b2)
§ git commit -m 'change 1
[b2 d4388bc] change 1
 1 file changed, 1 insertion(+), 1 deletion(-)
Abhishek BhanDLAPTOP+3LSNVRRN MINGW64 ~/OneDrive/Desktop/colab2/seweek4 (b2)
$ git push origin b2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 256 bytes | 23.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Abhishekgyara/seweek4.git
   ac6cced, .d4388bc b2 -> b2
Abhishek BhanglAPTOP-315MVRRN MINGW64 ~/OneDrive/Desktop/colabl/abhisai (main)
5 cd 'C:/Users/Abhishek Bhan/OneDrive/Desktop/colabl'
Abhishek Shar@LAPTOP-315MVRRN MINGW64 ~/OneDrive/Desktop/colabl (master)
$ git clone https://github.com/Abhishekgyara/seweek4.git
Cloning into 'seweek4'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (6/6), done.
```



```
Abhishek BhanULAPTOP-315MVRRN MINGW64 ~/OneDrive/Desktop/colabl/seweek4 (main)
S git checkout -b bl
Switched to a new branch 'b1'
Abhishek BhanGLAPTOP-315MVRRN MING#64 ~/OneDrive/Desktop/colab1/seweek4 (bl)
5 git status
on branch bl
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)
no changes added to commit (use "git add" and/or "git commit -a")
 Abbishek Bhan@LAPTOP-315MyRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4 (b1)
5 git add .
Abbishek BhanBLAPTOP-315MyRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4 (bl)
$ git commit -m 'change 2'
[bl c7476ff] change 2
 1 file changed, 1 insertion(+), 1 deletion(-)
Abbishek BhanBLAPTOP-315MVARN MINGW64 ~/Oneprive/pesktop/colabl/seweek4 (bl)
$ git push origin b1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 256 bytes | 64.00 KiB/s, done.
Yotal 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Create a pull request for 'bl' on GitHub by visiting:
remote: https://github.com/Abhishekgyara/seweek4/pull/new/bl
remote:
To https://github.com/Abhishekgyara/seweek4.git
* [new branch] b1 -> b1
    [new branch]
```



#### CONFLICTS:



### **RESOLVING CONFLICTS:**

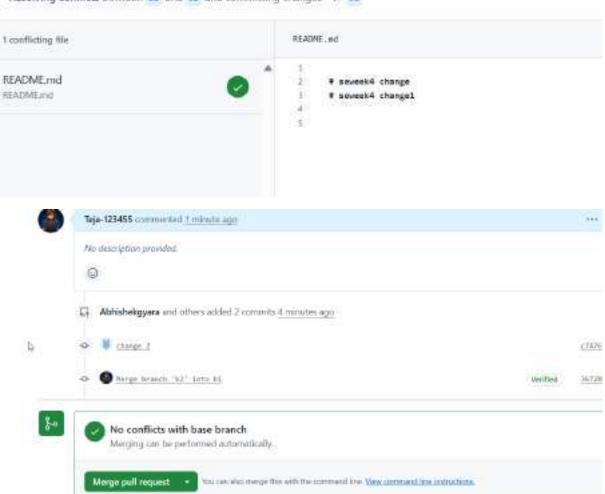
# change 2 #3

Resolving conflicts between b1 and b2 and committing changes > b1

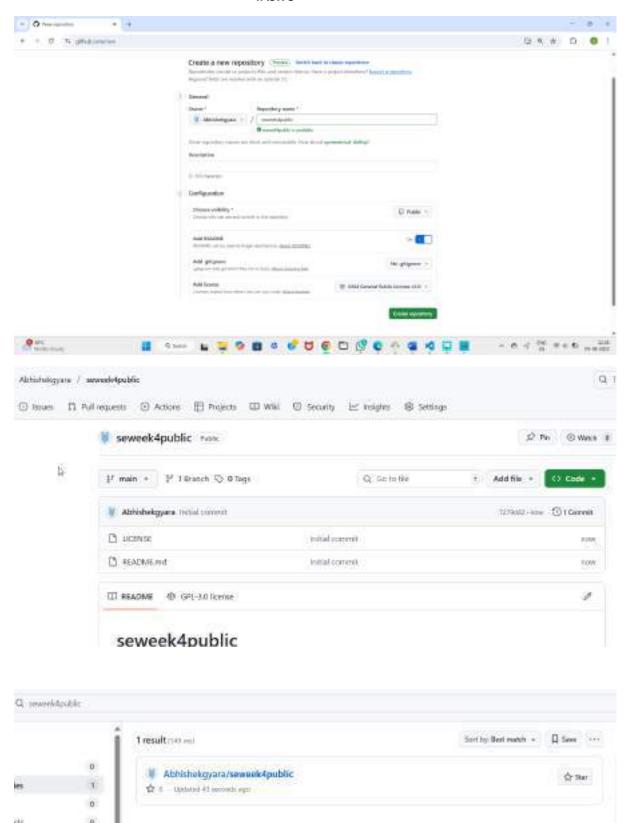


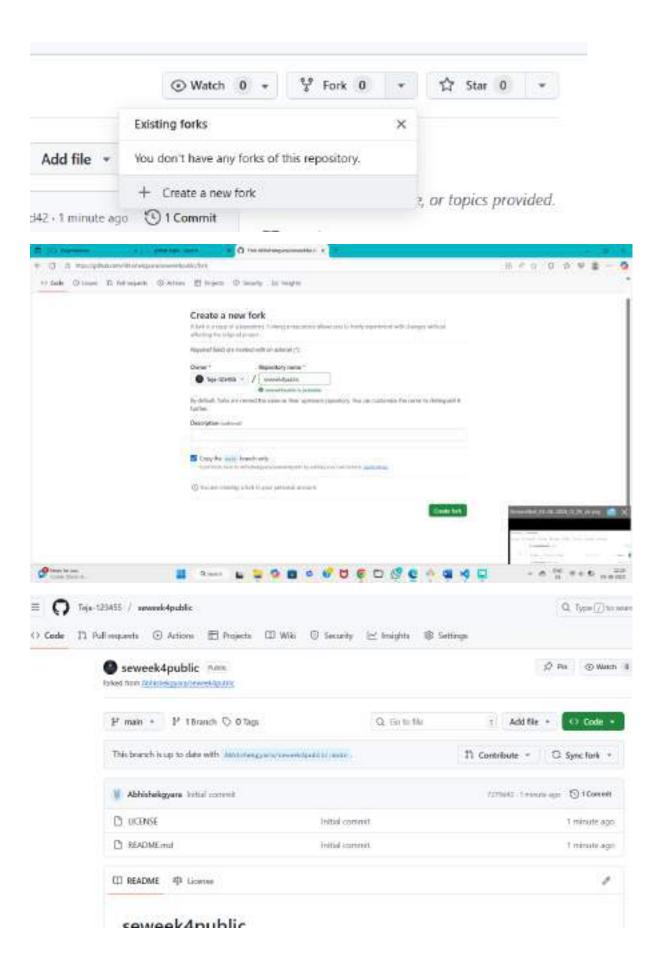
### change 2 #3

Resolving conflicts between 61 and 62 and committing changes  $\rightarrow$  61



### TASK 3





```
Abhishek BhanBLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4 (b2)
$ cd 'C:/Users/Abhishek Bhan/OneDrive/Desktop/colab2'
Abhishek BhanBLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2 (master)
$ git clone https://github.com/Abhishekgyara/seweek4public.git
Cloning into 'seweek4public'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (4/4), 12.74 KiB | 1.82 MiB/s, done.

Abhishek BhanBLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2 (master)
$ 1s
abhisai/ seweek4/ seweek4public/

Abhishek BhanBLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2 (master)
$ cd seweek4public

Abhishek BhanBLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4public (main)
$ 1s
LICENSE README.md
```

2: > Users > Abhishek Bhan > OneDrive > Desktop > or 1 # seweek4public change 1

```
Abhishak BhandLAFTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4public (main)
% pit status
On branch main
Your branch is up to date with 'origin/main'.

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")

Abhishak BhandLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4public (main)
% git add .

Abhishak BhandLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4public (main)
% git commit -m 'l commit'
[main 7a8ca77] 1 commit
1 file changed, 1 insertion(+), 1 deletion(-)

Abhishak BhandLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab2/seweek4public (main)
% git push origin main
Enumerating objects: 5, done.

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

Delta compression using up to 12 threads
Compression using up to 12 threads
Compressing objects: 100% (3/3), 294 bytes | 73.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Abhishekgyara/seweek4public.git
    7279d42.7a8ca77 main -> main
```

```
Abhishek BhanStartor-31smvRRN MINGW64 -/OneDrive/Desktop/colabl (master)

5 cd 'C:/Users/Abhishek Bhan/OneDrive/Desktop/colabl'
Abhishek Bhan9LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab1 (master)
$ git clone https://github.com/Abhishekgyara/seweek4public.git
cloning into 'seweek4public'...
remote: Enumerating objects: 7, done.
remote: Countring objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 7 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (7/7), 12.99 KiB | 511.00 KiB/s, done.
 Abhishek BhanGLAPTOP-JISKVERN MINGW64 ~/OneDrive/Desktop/colabl (master)
5 cd seweek4public
 Abhishek Bhan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)
$ 15
LICENSE README.md
Users > Abhishek Bhan > OneDrive > Desktop > colab1 > seweek4publi
         # seweek4public change 1 change 2
 Whishek BhanGLAFTOF-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (Main)
5 git status
On branch main
Your branch is up to date with 'origin/main'.
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)
no changes added to commit (use "git add" and/or "git commit -a")
Abhishek BhangLAPTOP-315WYRRN MINGW64 ~/OneDrive/Desktop/colabl/seweek4public (main)
$ git add .
```

Users > Abhishek Bhan > OneDrive > Desktop > colab1 > seweek4public > ™ README

# seweek4public change 1 change 2 change 3

```
Abhishek BhangLAPTOP-31SMV9RN MINGW64 -/OneDrive/Desktop/colab2/seweek4public (bl)
5 git status
On branch b1
Changes not staged for commit;

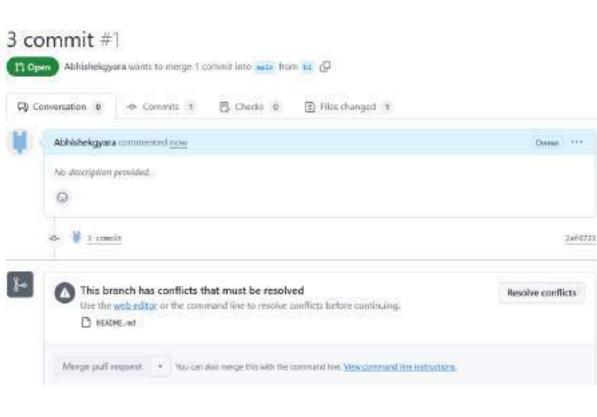
(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
Abhishek Bhan#LARTOR-315MVRRN MINGW54 -/OneDrive/Desktop/colab2/seweek4public (bl)
S git add .
Abhishek BhangLAPTOP-31SMVRRN MENGW64 -/OneDrive/Desktop/colab2/seweek4public (bl)
5 git commit -m '3 commit'
[b1 2af4723] 3 commit
1 file changed, 1 insertion(+), 1 deletion(-)
 Abhishek Bhar@LAPTOP-315MYRRN MINGWS4 -/OneDrive/Desktop/co/ab2/seweek4public (bl)
5 git push origin bl
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 12 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (10/10), 13.25 KiB | 2.21 MiB/s, done.
Total 10 (delta 0), reused 4 (delta 0), pack-reused 0 (from 0)
remote:
 remote: Create a pull request for 'b1' on GitHub by visiting:
                   https://github.com/Abhishekgyara/seweek4public/pull/new/bl
 remote:
 remote:
To https://github.com/Abhishekgyara/seweek4public.git

= [new branch] b1 -> b1
S git status
On branch main
Your branch is up to date with 'origin/main'.
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)
no changes added to commit (use "git add" and/or "git commit -a")
Abhishek Bhan9LAPTOP-315MVRRN MINGW64 ~/OneDrive/Desktop/colab1/seweek4public (main)
5 git add .
Abbishek BhanWLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)
5 git commit -m '4 commit'
[main 3180bdc] 4 commit
 1 file changed, 1 insertion(+), 1 deletion(-)
Abhishek Bhan@LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 299 bytes | 149.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Abhishekgyara/seweek4public.git
81bc06a.3180bdc main -> main
```





#### **TASK 4:**

```
Abhishak ShanWLAPTOP-31EMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)
$ git log
commit 3180bdcd0716313bfa07ccc926cf8ee1278c072e (HEAD -> main, origin/main, origin/HEAD)
Author: abhi <abhishekbhang2006@gmail.com>
Date: Tue Aug $ 12:40:26 2025 +0530

4 commit 81bc06ae3d2ed24ade0a0cb9418bc975cc417f6b
Author: abhi <abhishekbhang2006@gmail.com>
Date: Tue Aug $ 12:36:22 2025 +0530

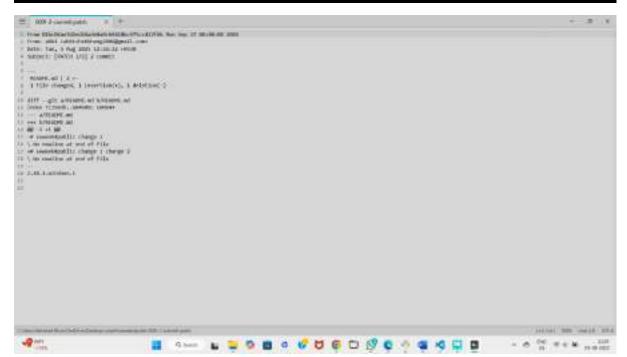
2 commit

commit 7a8ca771b5e14fc08d0a2aca1b8f3561e8581369
Author: abhi <abhishekbhang2006@gmail.com>
Date: Tue Aug $ 12:33:27 2025 +0530

1 commit 7279d4253d82bd05e7fae748b6d8ef81223e2e6a
Author: GyaRA ABHISHEK BHAN <abhishekbhang2006@gmail.com>
Date: Tue Aug $ 12:28:34 2025 +0530

Initial commit
```

```
Abhishek BhanBLAPTOP-31SAVREN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (main)
$ git format-patch -1
0001-4-commit.patch
Abhishek BhanBLAPTOP-31SAVREN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (main)
$ git format-patch -2
0001-2-commit.patch
0002-4-commit.patch
```



```
Abhishek Shan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (main)
S git status
On branch main
Your branch is up to date with 'origin/main'.

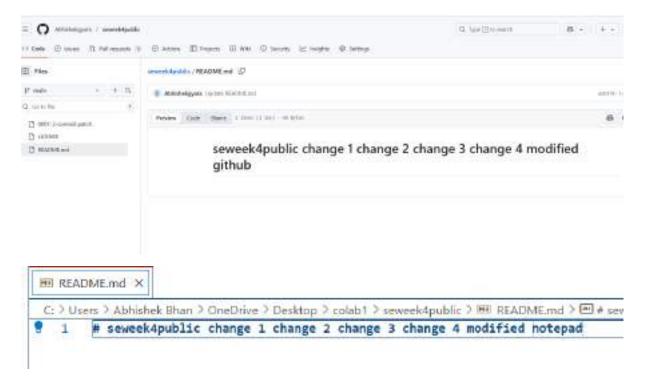
Untracked files;
(use "git add <file>..." to include in what will be committed)
0001-2-commit.patch
0003-4-commit.patch
0003-4-commit.patch
```

```
Abhishek Shan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)
$ git apply 0001-4-commit.patch
```

### **SCENARIO BASED QUESTIONS**

1. You've cloned a repository and made some changes to a local branch. Now you want to push these changes to the remote repository, but you're getting an error saying "rejected - non-fast-forward." How would you resolve this?

ANS: This happens when the remote branch has new commits that your local branch doesn't. To fix:



```
Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes |

<<<<< HEAD (Current Change)

# seweek4public change 1 change 2 change 3 change 4 modified notepad

======

# seweek4public change 1 change 2 change 3 change 4 modified github

>>>>>> a3fc179e7d2589c131915ffc8f98dea3e47729cb (Incoming Change)
```

```
Abhishek BhanGLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main!MERGING) 
$ git add README.md
```

```
Abhishek BhanGLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (main MERGING)

§ git commit -m "resolved conflict"
[main 35d4bc1] resolved conflict

Abhishek BhanGLAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (main)

§ git push origin main
Enumerating objects: 13, done.

Counting objects: 100% (13/13), done.

Delta compression using up to 12 threads

Compressing objects: 100% (8/8), done.

writing objects: 100% (8/8), done.

Writing objects: 100% (9/9), 1.09 kiB | 186.00 kiB/s, done.

Total 9 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 2 local objects.

To https://github.com/Abhishekgyara/seweek4public.git
a3fc179..35d4bc1 main -> main
```

2. You've been working on a feature branch, and now you need to push it to the remote repository. However, the remote repository already has a main branch. How do you push your feature branch without affecting the main branch?

3. You cloned a remote repository, but after a while, the repository's structure changed and new branches were added. How would you keep your local repository updated with the latest changes from the remote repository?

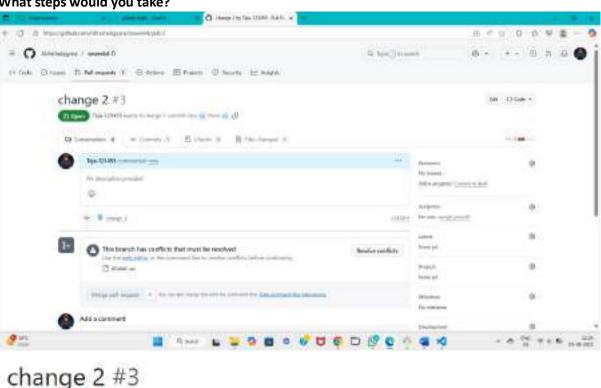
```
abhishek Bhan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (bliMERGING)
$ git fetch -a

abhishek Bhan@LAPTOP-31SMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (bliMERGING)
$ git branch -r

origin/HEAD -> origin/main
origin/bl

origin/main
```

4. A colleague has pushed some changes to the main branch, but you have local changes in the same branch. You want to pull their changes, but you want to avoid merge conflicts. What steps would you take?







5. You accidentally pushed a sensitive file (e.g., API keys) to the remote repository. How would you fix this situation?

```
Abhishek BhanGLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (bl[MERGING) $ git on README.md rm 'README.md'
```

6. You're working on a feature branch, and your manager requests that you integrate the latest changes from main into your feature branch. What steps would you take?

7. You cloned a remote repository, but later you find that you need to push your changes to a different remote repository. How do you configure your local repository to push to this new remote?

```
Abhishek BhangLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (feature)

$ git remote add new-remote-name https://github.com/Abhishekgyara/newr.git

Abhishek BhangLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (feature)

$ git remote -v
new-remote-name https://github.com/Abhishekgyara/newr.git (fetch)
new-remote-name https://github.com/Abhishekgyara/seweek4public.git (push)

origin https://github.com/Abhishekgyara/seweek4public.git (push)

Abhishek BhangLAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colabl/seweek4public (feature)

$ git push -u https://github.com/Abhishekgyara/newr.git
Enumerating objects: 29, done.

Counting objects: 100% (29/29), done.

Delta compression using up to 12 threads
Compressing objects: 100% (24/24), done.

writing objects: 100% (29/29), 15.75 KiB | 849.00 KiB/s, done.
Total 29 (delta 7), reused 7 (delta 0), pack-reused 0 (from 0)
```

8. After running git pull, you notice that your local branch is behind the remote branch. How would you proceed to bring your local branch up to date without losing your local changes?

9. You're working on a project with multiple collaborators, and you notice that your local changes conflict with changes that have been pushed by others. How would you resolve the conflicts?

## change 2 #3

Resolving conflicts between b1 and b2 and committing changes > b1



### change 2 #3



10. You've pushed a feature branch to a remote repository, but now you need to delete the branch from the remote. How would you do that?

```
Abhishek Bhan@LAPTOP 3ISMVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (feature)
$ git branch -d b2
Deleted branch b2 (was 35d4bc1).
```

### Scenario:

You are working on a collaborative project hosted on GitHub with a team of four developers. The main branch is main, and each developer works on their own feature branches.

You are assigned to implement a new UI component in a branch called feature/ui-update. Meanwhile, another team member has made a critical bug fix and pushed it directly to the main branch. When you try to push your changes, your push fails due to upstream changes.

Additionally, a teammate has submitted a patch file with a small CSS fix and shared it via email. You need to apply the patch, test it, and merge everything into main without breaking any functionality.

11. What command will you use to bring your local main branch up to date with the remote repository before merging it into your feature branch?

```
Abhishek BhanM.APTOP-115MVRRN MINGW64 ~/OneDrive/Desktop/colabl/seweek4public (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

12. How will you update your feature/ui-update branch to reflect the latest changes from main?

```
Abhishek MhanDLAPTOP-315WWREN MINGWB4 ~/OneOrive/Desktop/colahl/seweek4public (main)

$ git checkout feature-ui-update

Switched to branch 'feature-ui-update'

Abhishek BhanDLAPTOP-315WWREN MINGWB4 ~/OneOrive/Desktop/colabl/seweek4public (feature-ui-update)

$ git merge main

Already up to date.
```

13. Which command should you use to attempt pushing your local feature branch again, and what should you do if it fails due to conflicts?

14. How do you apply a .patch file provided by your teammate and include it in your commit history?

```
Abhishek Shan@LAPTOP-315MVRRN MINGW64 ~/OneDrive/Desktop/colabl/seweek4public (main) 
$ git apply 0001-2-commit.patch
```

15. After successful testing, describe the steps (with commands) to merge your feature branch into main and push it to GitHub.

```
Abhishek Bhan@LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)

S git pull origin main

From https://github.com/Abhishekgyara/seweek4public

* branch main -> FETCH_HEAD

Already up to date.

Abhishek Bhan@LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)

S git merge feature-ui-update

Already up to date.

Abhishek Bhan@LAPTOP-315MVRRN MINGW64 -/OneDrive/Desktop/colab1/seweek4public (main)

S git push origin main

Everything up-to-date
```