Experiment -3

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Branch: CSE(DEVOPS) **Section/Group:22BCD-1/A**
Semester: 4TH **Date of Performance: 31/01/2024**
Subject Name:GIT AND GITHUB **Subject Code: 22CSH-293**

1. Aim/Overview of the practical:. To create and explore Pull request

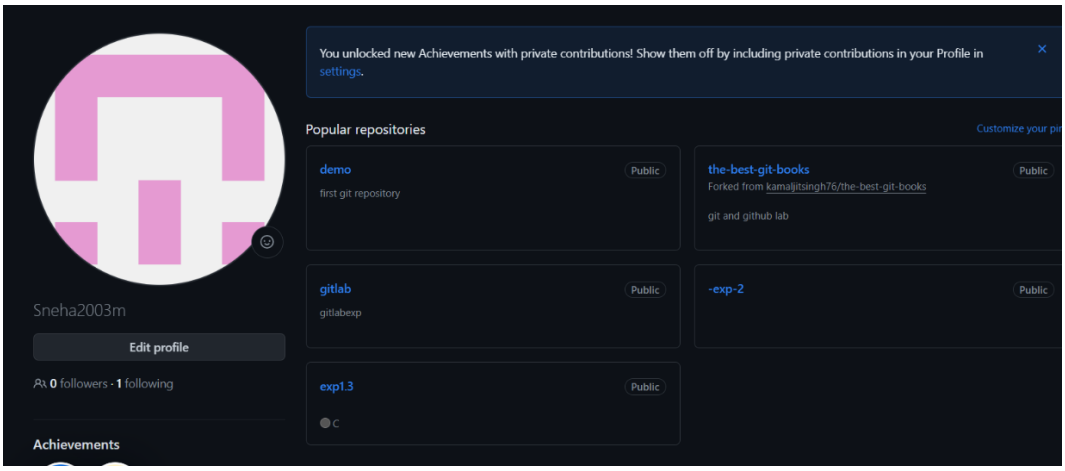
2. Software used: Git Bash and Github.

3. Hardware Used: Computer system.

4. Steps for experiment:

For Branch Making And Making a Pull Request:

1. Create a file on local device and open that folder with Git Bash.
2. Create a repository on Github with exp1.3 name and copy the http link.

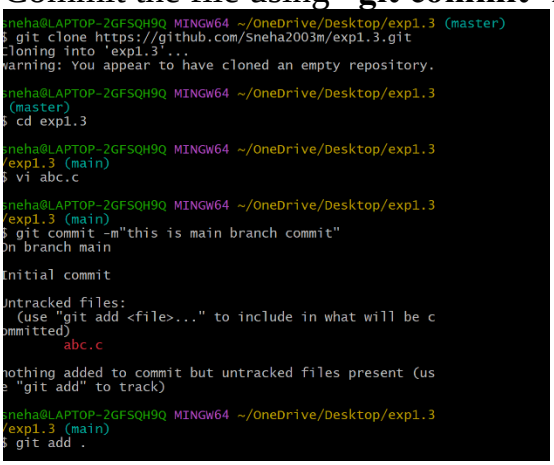


3. Make clone of the repository using *"git clone http link"*

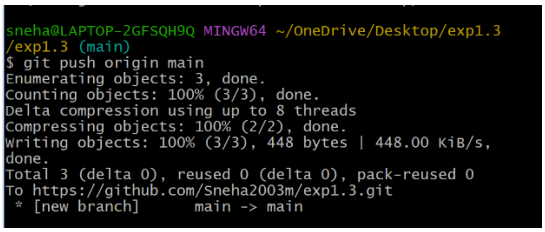
```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp1.3 (master)
$ git clone https://github.com/Sneha2003m/exp1.3.git
Cloning into 'exp1.3'...
warning: You appear to have cloned an empty repository.
```

4. Change the current working directory using **"cd"** command: *"cd exp1.3"*

5. Create and edit a file using **"vi filename"** command: *"vi abc.c"*
6. Add the file using **"git add "** command
7. Commit the file using **"git commit -m"message""** command.



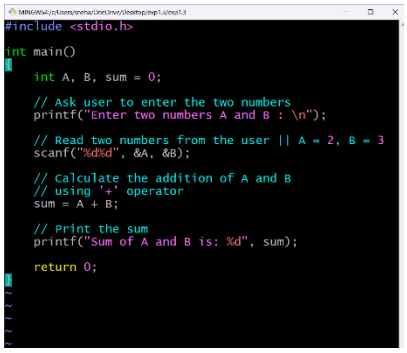
8. Push the file into the remote repository using **"git push origin main"** command.



9. Create a new branch and move to that branch using **"git checkout -b branch name"**

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp1.3
/exp1.3 (main)
$ git checkout new
Switched to branch 'new'
```

10. Open the same file and start editing the file using **"vi file name"** Command

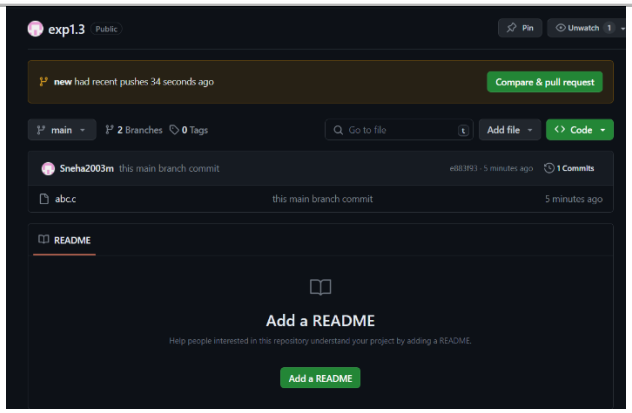


```c
#include <stdio.h>

int main()
{
    int A, B, sum = 0;

    // Ask user to enter the two numbers
    printf("Enter two numbers A and B : \n");

    // Read two numbers from the user || A = 2, B = 3
    scanf("%d%d", &A, &B);

    // Calculate the addition of A and B
    // using '+' operator
    sum = A + B;

    // Print the sum
    printf("Sum of A and B is: %d", sum);

    return 0;
}
```

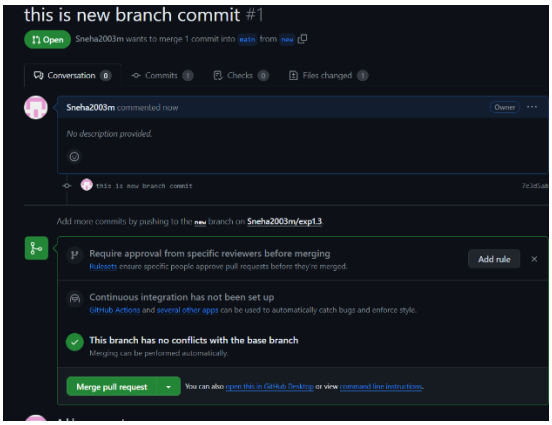
11. Add the file to the stagging area using **"git add."** Command.
12. Make a Commit to the file using **"git commit -m"message""**
13. Make a push using the **"git push origin branch name"**

```
/exp1.3 (new)
$ vi abc.c

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp1.3
/exp1.3 (new)
$ git add .

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp1.3
/exp1.3 (new)
$ git commit -m"this is new branch commit"
[new 7c3d5ab] this is new branch commit
 1 file changed, 1 insertion(+), 1 deletion(-)

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp1.3
/exp1.3 (new)
$ git push origin new
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 273 bytes | 273.00 KiB/s,
done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1
local object.
remote:
remote: Create a pull request for 'new' on GitHub by vi
siting:
remote:      https://github.com/Sneha2003m/exp1.3/pull/
new/new
remote:
To https://github.com/Sneha2003m/exp1.3.git
```

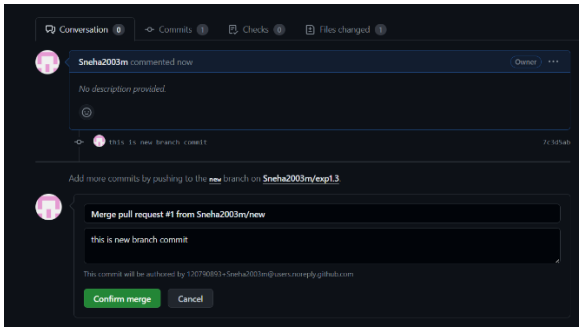
14. Now make compare and pull request on Github.



15. Compare the change done in the branches.

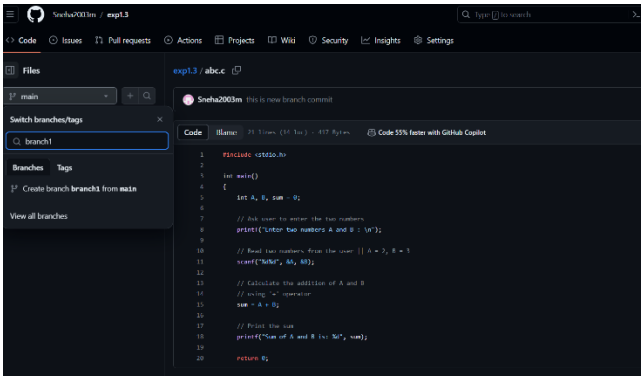


16. Create a pull request on github and do the merge pull request.

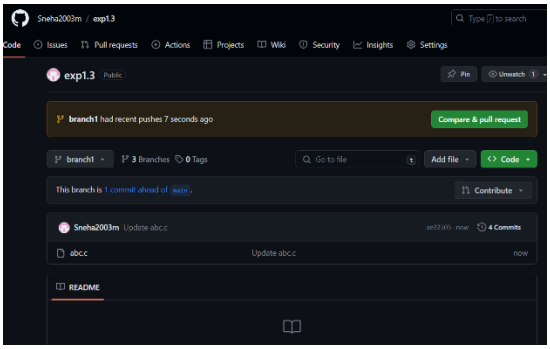


17. Delete the branch using delete branch on github.

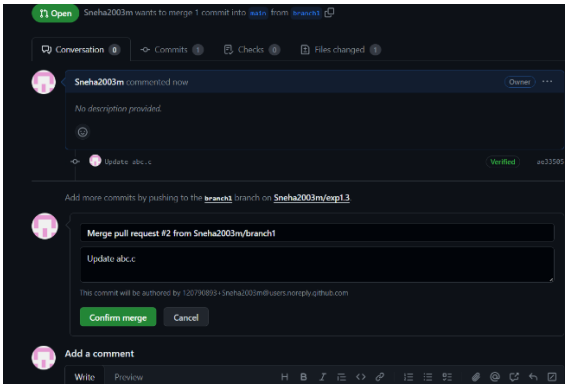
18. Create a branch on the github and edit the file and commit the change.



19. Now make compare and pull request on Github

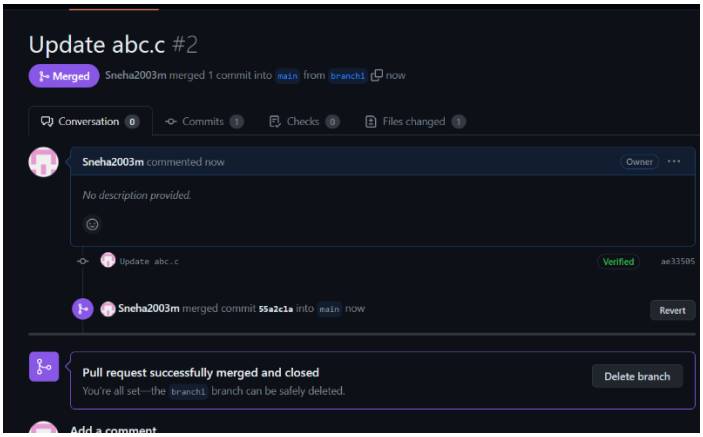


20. Compare the change done in the branches.



21. Create a pull request on github and do the merge pull request.

22. Delete the branch using delete branch on github.



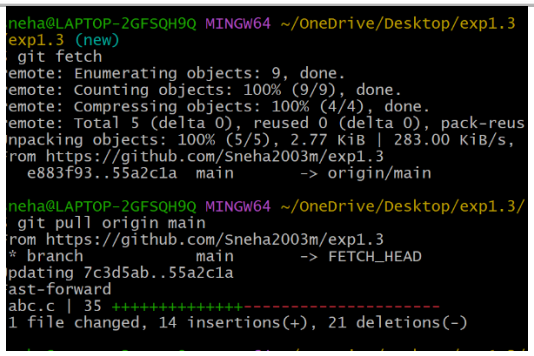
22. Go to the Gitbash and fetch the changes using *"git fetch command"*

```
 * [new branch]      new -> new

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp1.3
/exp1.3 (new)
$ git fetch
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 0), reused 0 (delta 0), pack-reus
Unpacking objects: 100% (5/5), 2.77 KiB | 283.00 KiB/s,
From https://github.com/Sneha2003m/exp1.3
   e883f93..55a2c1a  main       -> origin/main
```

23. Carefully examine the changes in the file after fetch command.

```
#include<stdio.h>
int main(){
  int num1, num2, difference;

  //Asking for input
  printf("Enter first number: ");
  scanf("%d", &num1);
  printf("Enter second number: ");
  scanf("%d", &num2);

  difference = num1 - num2;
  printf("Difference of %d and %d is: %d", num1, num2, difference);
  return 0;
}
```

24. Now do a pull request using command *"git pull origin main"* and examine the changes.



5. Result/Output/Writing Summary:

In this experiment we have learn about making a pull request on both github and git bash for local as well as remote servers. We have also gone through the chages made by merge and pull request command.

Learning outcomes (What I have learnt):

1. Learnt the difference between git merge and pull request.
2. Learnt how to make the merge request on github and git bash.
3. Learnt about editing the files.
4. Learnt how to delete a branch in github and bash.
5. Also learnt about comparing the merged files.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			

2.			
3.			