Experiment -1.1

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Branch: CSE(DevOps) **Section/Group-22BCD-1(B)**
Semester: 4th **Date of Performance:13/01/24**
Subject Name- Git and GitHub **Subject Code:22CSH-2931.**

1.Aim/Overview of the practical: Creating branches with GitHub.

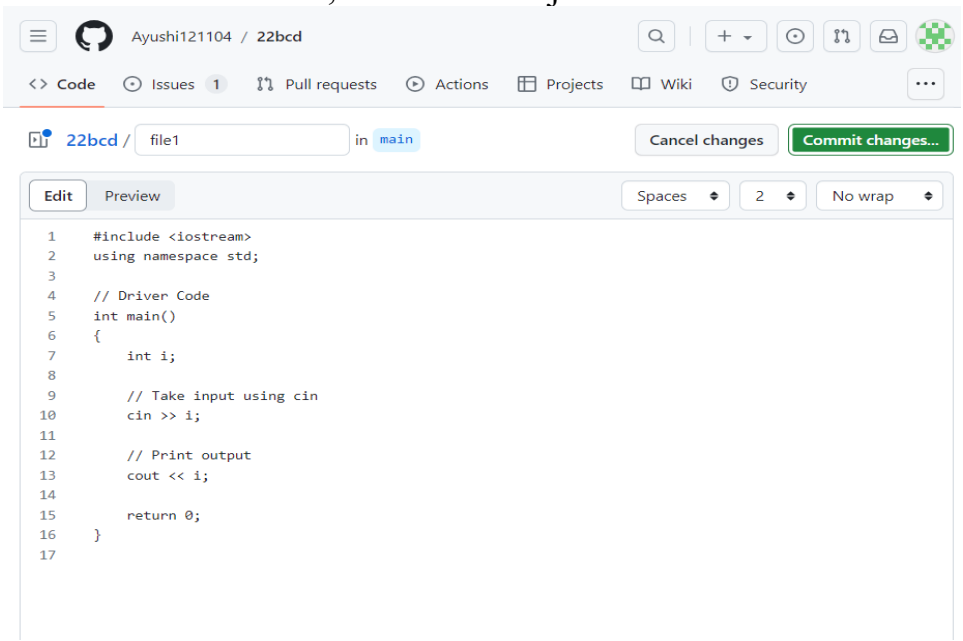
2. Task to be done: Creating branches with GitHub and on Git Bash.

3. Apparatus(For applied/experimental sciences/materials based labs): Software used are git hub and git bash

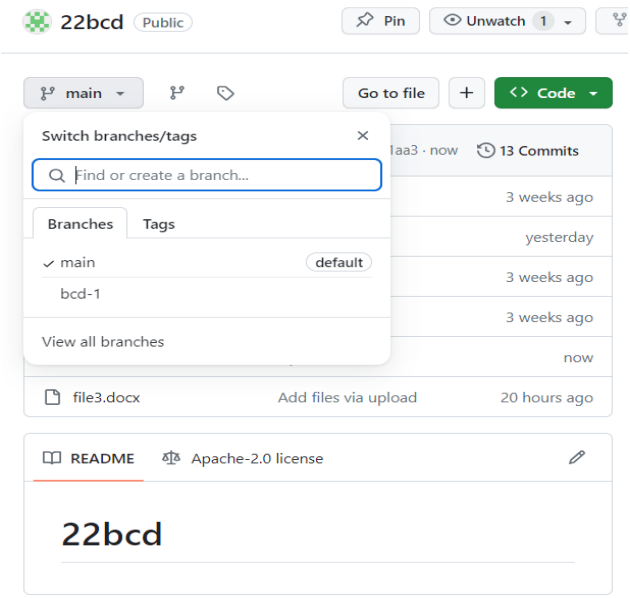
4.Steps for experiment/practical:

1.Open your github and go to repository.

2. Add new file in that named “file1” , and after this just write the code.

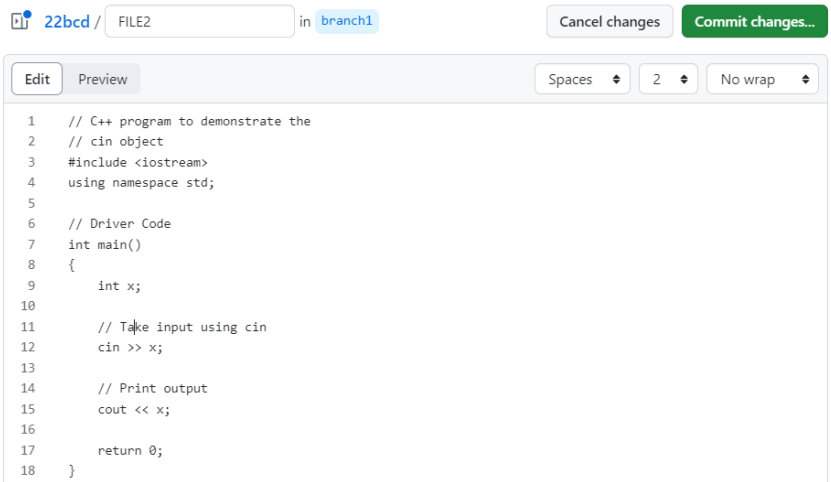


3. After that click on “commit change” , and give commit message and description, then click on Commit Changes.



4. Then open the “first file” and click on **“main”** to create branch.

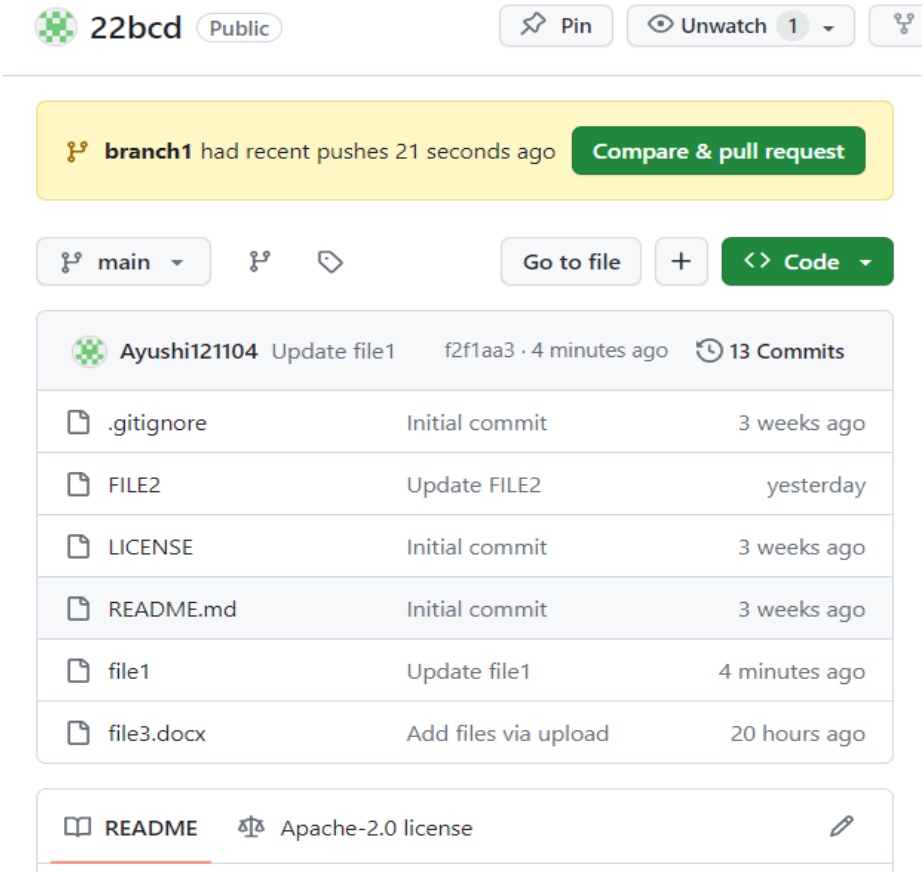
5.In main go on “view all branches” and click on **‘New Branch’** ,then enter the name of branch **‘branching’** and the click on **create new branch.**



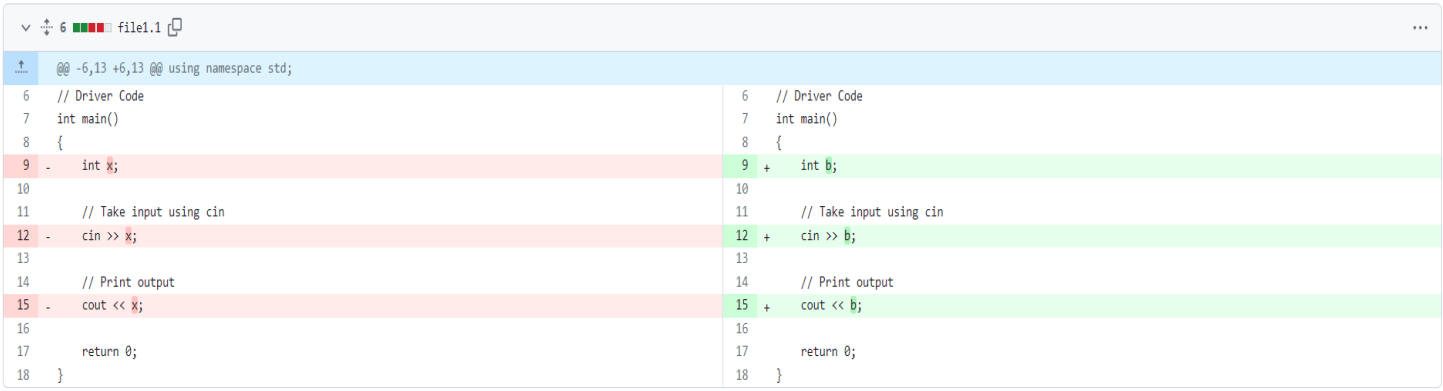
6. Now in the file go on ‘edit the file’ and edit the code.

7. After edit the code then click on **‘commit changes’** to commit the changes , enter commit message and the description.

8. Then in the repository go on “**compare & pull request”.**



9.Here is the code comparation in split form.

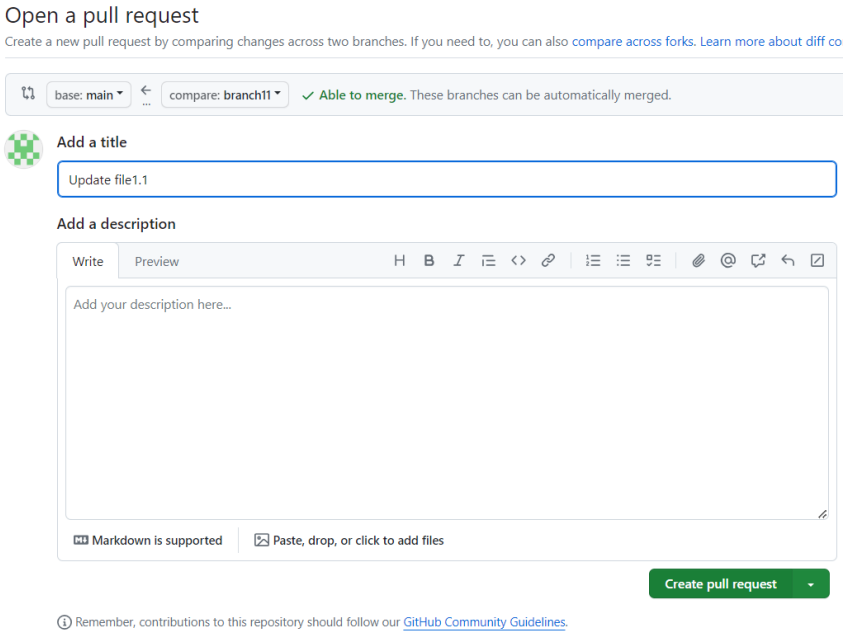


6 file1.1

```
@@ -6,13 +6,13 @@ using namespace std;
6   // Driver Code                          6   // Driver Code
7   int main()                             7   int main()
8   {                                      8   {
9   -   int x;                            9   +   int b;
10                                         10
11      // Take input using cin            11      // Take input using cin
12  -   cin >> x;                         12  +   cin >> b;
13                                         13
14      // Print output                    14      // Print output
15  -   cout << x;                        15  +   cout << b;
16                                         16
17      return 0;                          17      return 0;
18  }                                      18  }
```

10. Then click on **'Create pull request'** , and give tittle and description.

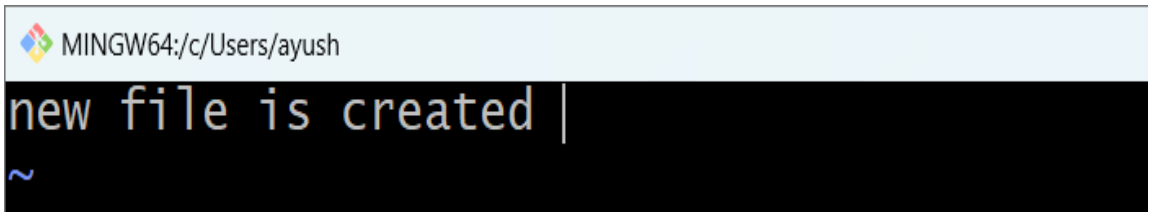
11. After this click on **merge pull request**.And **confirm merge.**



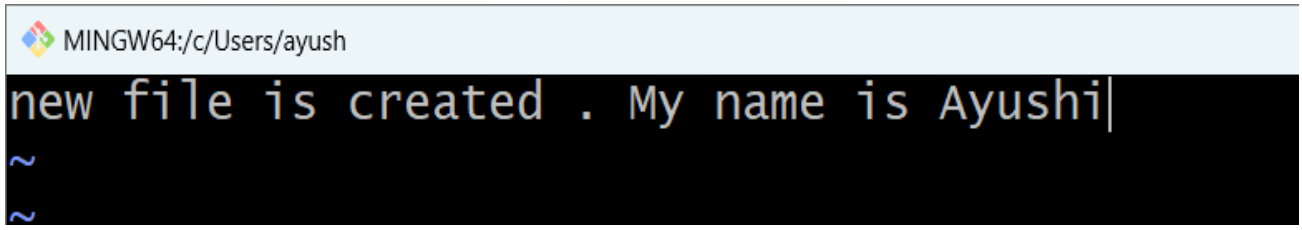
12. If you want to delete the branch so you can delete by clicking on 'Delete branch'.

Creating Branch on Git Bash :

i) First we create a new folder on desktop named 'git'.
ii) After that we initialize it using **'git init'command.**
iii) Then create a new file using command **'vi ayushi'**.



iv) Edit the file .



v) Using command **'git add(ayushi)'** we put it in staging area.
vi) Now create a branch using 'git checkout -b branch_name' **, git checkout -b newbranch.**

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~ (branch1)
$ git branch
* branch1

ayush@LAPTOP-14JQ3IMU MINGW64 ~ (branch1)
$ touch Aushi.txt

ayush@LAPTOP-14JQ3IMU MINGW64 ~ (branch1)
$ git init
Reinitialized existing Git repository in C:/Users/ayush/.git/

ayush@LAPTOP-14JQ3IMU MINGW64 ~ (branch1)
$ git checkout -b master
Switched to a new branch 'master'

ayush@LAPTOP-14JQ3IMU MINGW64 ~ (master)
$ git init
Reinitialized existing Git repository in C:/Users/ayush/.git/

ayush@LAPTOP-14JQ3IMU MINGW64 ~ (master)
$ vi ayushi

ayush@LAPTOP-14JQ3IMU MINGW64 ~ (master)
$ git add ayushi
```

vii) Now again edit the file using **'vi ayushi'.**

viii) Using command **'git add(ayushi)'** we put it in staging area.

ix) Commit it using git commit -m "message" .

x) Use "git checkout master " to move it in a master branch.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~ (branch11)
$ git checkout master
Switched to branch 'master'
M       Ayushi
```

xi) Merge branch using 'git merge new branch'.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~ (master)
$ git merge branch1
Already up to date.
```

5. Result/Output/Writing Summary:

In this experiment we have successfuly created a branch on Github and Gitbash.

Learning outcomes (What I have learnt):

1. . I have learnt about Branches.

2. I have learnt about the process of creating branch on github.

3. I have learnt about various commands like '**git init'** '**git add(file_name)**' ,'**git checkout -b branch_name**', '**git commit -m "message**", "**git checkout master** ", '**git merge newbranch', 'git status'**.

4. I have learnt about how to add file and merging it.

5. I have learnt about **deleting the branch.**

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.			