



Experiment -1.1

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Branch: CSE(DevOps)

Semester: 4th

Subject Name- Git and GitHub

UID:22BDO10055

Section/Group-22BCD-1(B)

Date of Performance:13/01/24

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

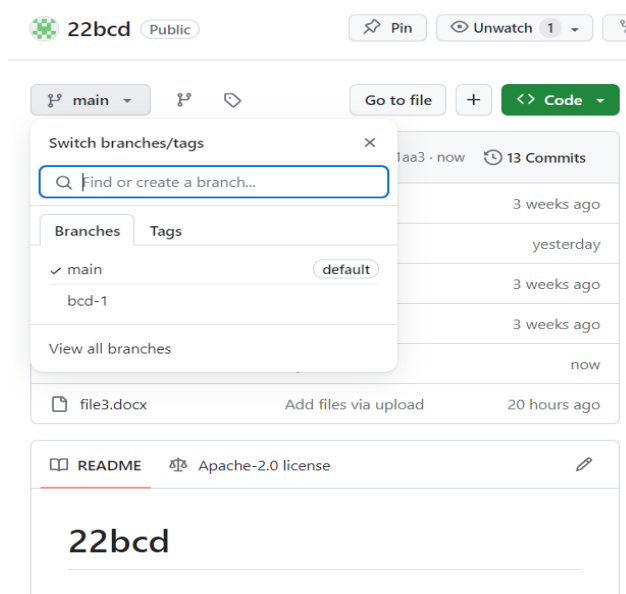
4.Steps for experiment/practical:

1.Open your github and go to repository.

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

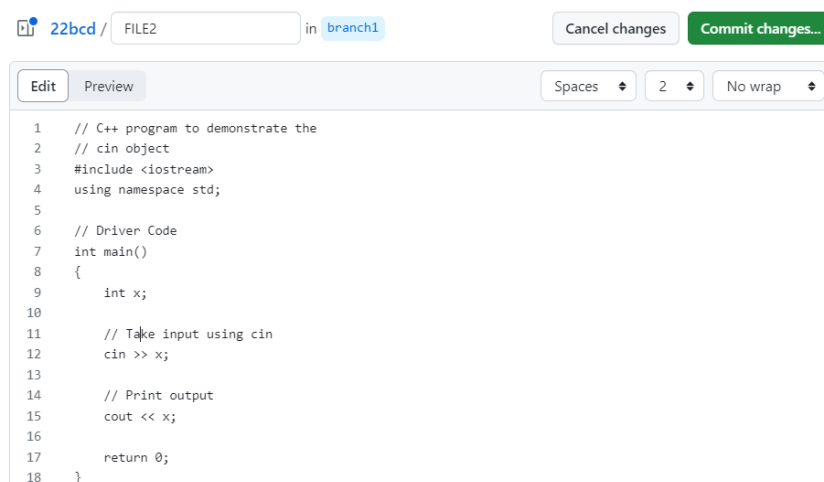
```
1 #include <iostream>
2 using namespace std;
3
4 // Driver Code
5 int main()
6 {
7     int i;
8
9     // Take input using cin
10    cin >> i;
11
12    // Print output
13    cout << i;
14
15    return 0;
16 }
17
```

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

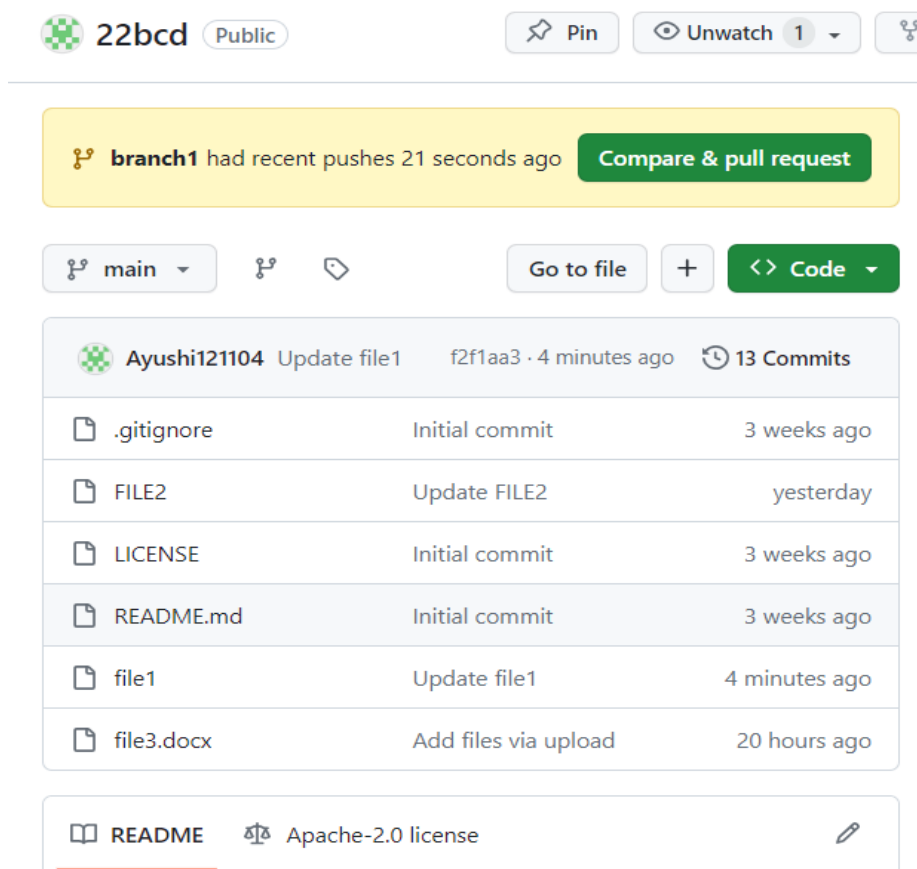


4. Then open the “first file” and click on “**main**” to create branch.

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



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Pin Unwatch 1

branch1 had recent pushes 21 seconds ago [Compare & pull request](#)

main Go to file + Code

File	Commit Message	Time Ago
.gitignore	Initial commit	3 weeks ago
FILE2	Update FILE2	yesterday
LICENSE	Initial commit	3 weeks ago
README.md	Initial commit	3 weeks ago
file1	Update file1	4 minutes ago
file3.docx	Add files via upload	20 hours ago

[README](#) [Apache-2.0 license](#)

9. Here is the code comparison in split form.

file1.1	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 title and description.

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

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff co](#)





























base: main ← compare: branch11 ✓ **Able to merge.** These branches can be automatically merged.

 Add a title



Update file1.1

Add a description

Write Preview

H B I                            

Add your description here...

 Markdown is supported  Paste, drop, or click to add files

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

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**'.

```
MINGW64:/c/Users/ayush
new file is created |
~
```

- iv) Edit the file .

```
MINGW64:/c/Users/ayush
new file is created . My name is Ayushi|
~
~
```

- 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 successfully 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.			