Experiment -1.2

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Section/Group: 22BCD-1/A
Semester: 4th
Date of Performance:24/1/24
Subject Name: Git And Github
Subject Code:22CSH-293

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

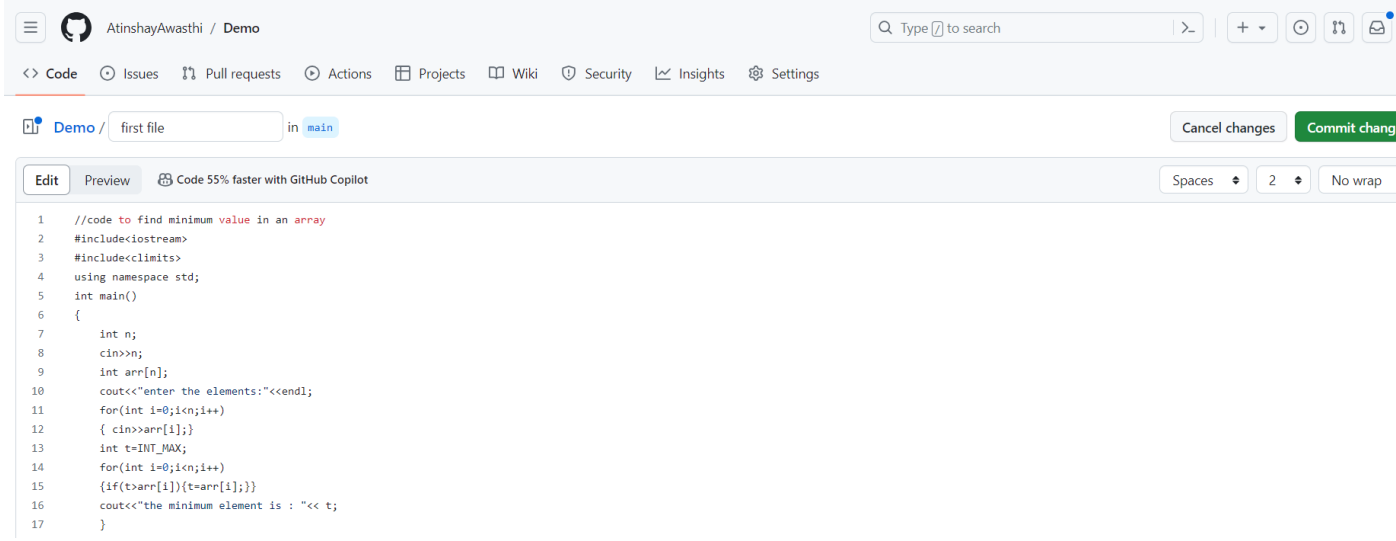
2. Task to be done: Creating branches with GitHub and on Git Bash.

3. Apparatus: software used git hub and git bash

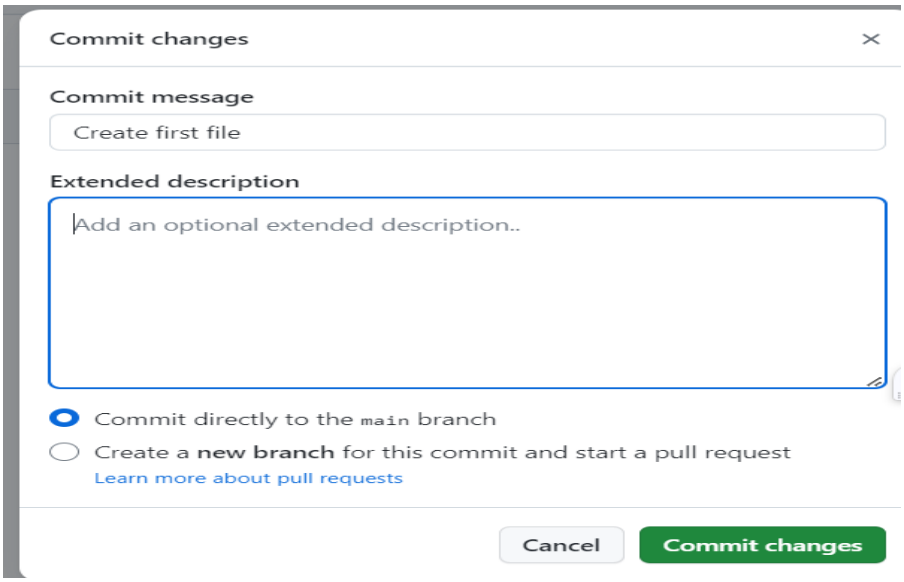
4. Steps for experiment/practical:

Creating Branch on GitHub :

i) Open your Github and go into repository “Demo” you want branching.
ii) Add new file in that named “first file” , and after this just write the code,

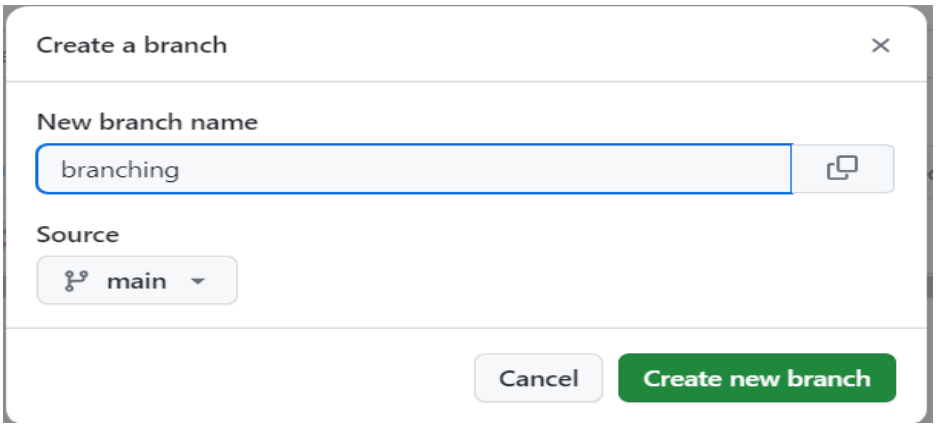


iii) After that click on “commit change” , and give commit message and description, then click on Commit Changes.



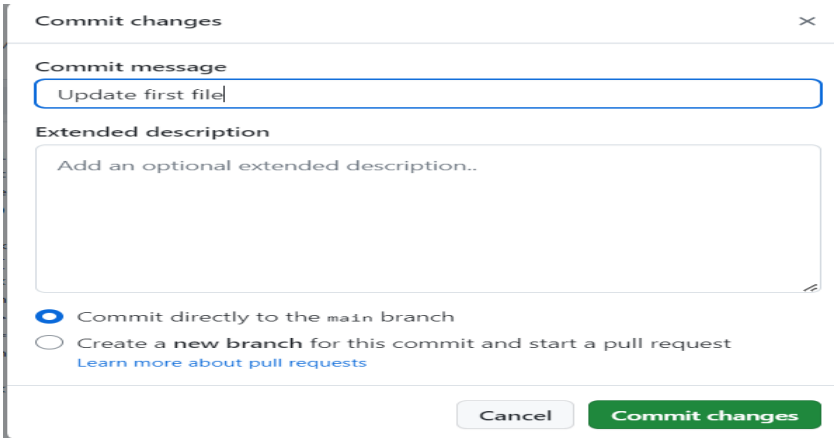
iv) Then open the “first file” and click on **“main”** to create branch.

v) 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.**



vi) Now in the file go on 'edit the file' and edit the code.

vii) After edit the code then click on **'commit changes'** to commit the changes , enter commit message and the description.

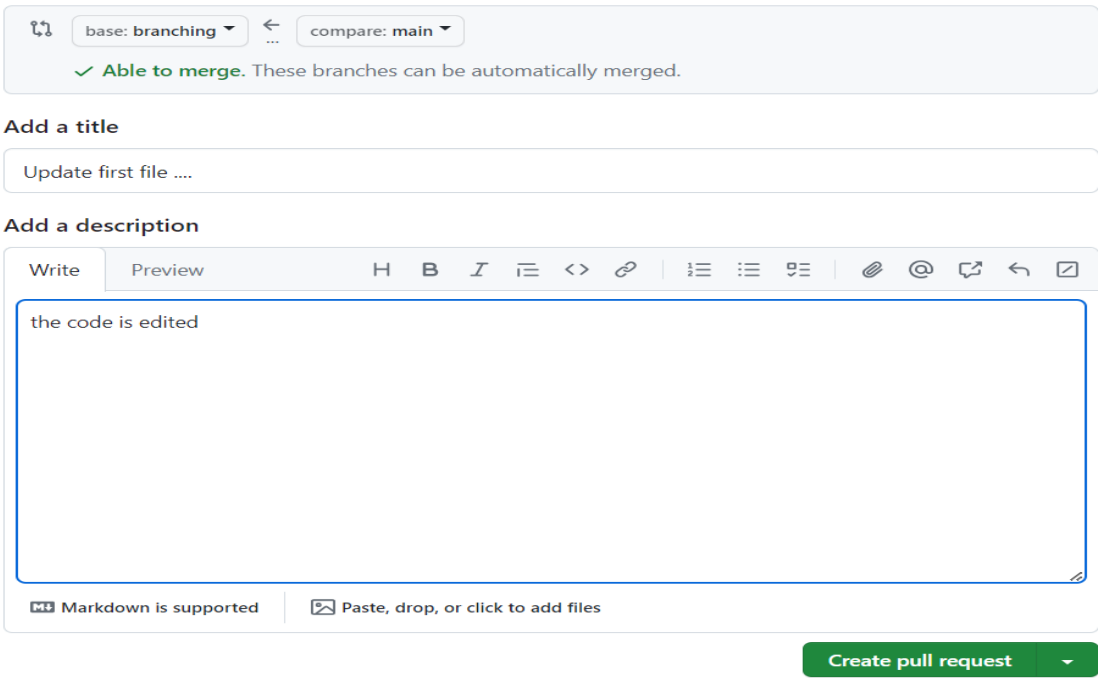


viii) Then in the repository go on "**compare & pull request".**

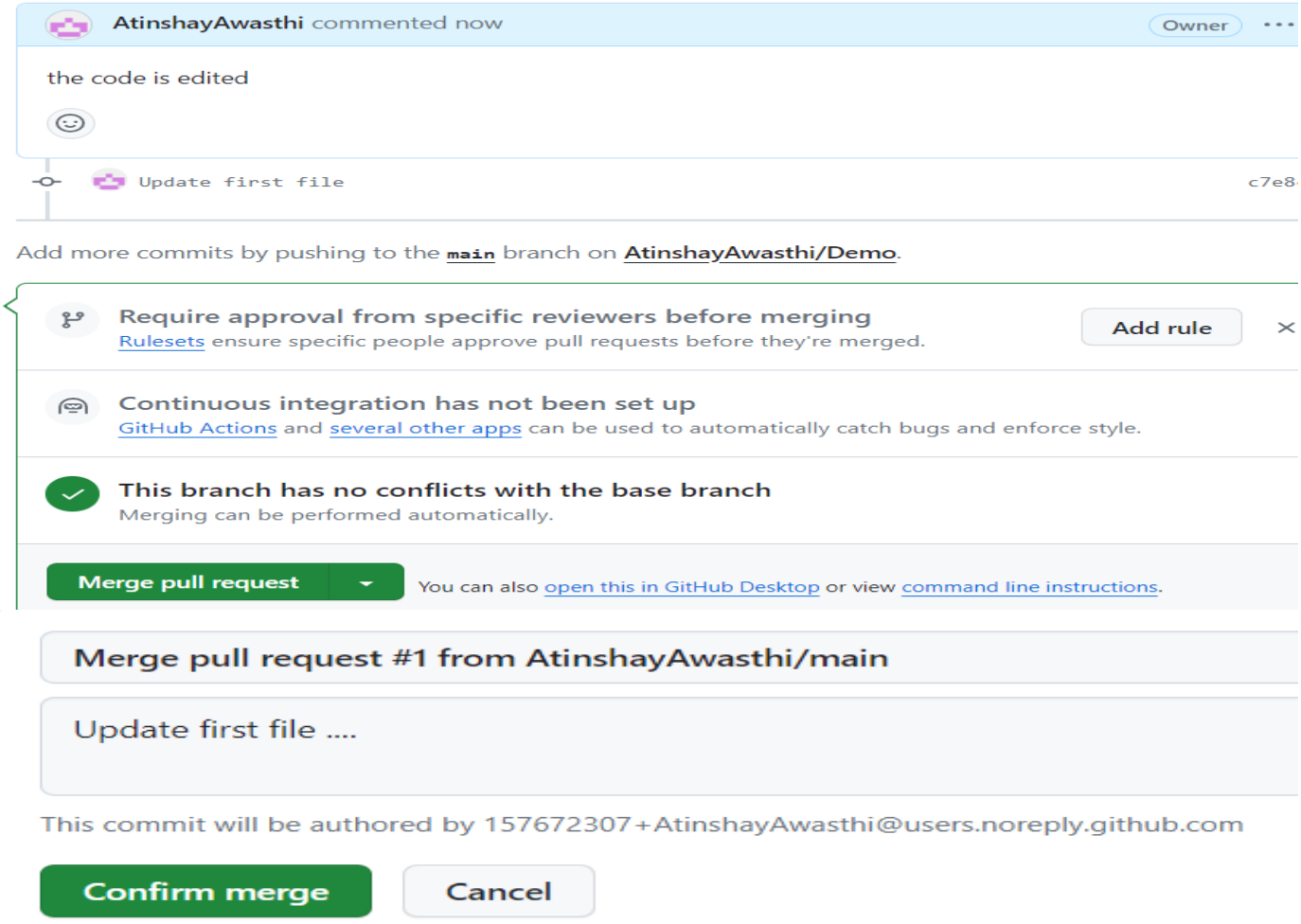
ix) Here is the code comparation in split form.

```
@@ -3,14 +3,14 @@
 #include<climits>                          #include<climits>
 using namespace std;                       using namespace std;
 int main()                                 int main()
-{int n;                                    +{int x;
-    cin>>n;                                +    cin>>x;
-    int arr[n];                            +    int a[x];
     cout<<"enter the elements:"<<endl;         cout<<"enter the elements:"<<endl;
-    for(int i=0;i<n;i++)                   +    for(int i=0;i<x;i++)
-    {cin>>arr[i];}                         +    {cin>>a[i];}
     int t=INT_MAX;                             int t=INT_MAX;
-    for(int i=0;i<n;i++){if(t>arr[i]){     +    for(int i=0;i<x;i++){if(t>a[i]){
-            t=arr[i];}}                    +            t=a[i];}}
     cout<<"the minimum element is : "<< t;     cout<<"the minimum element is : "<< t;
 }                                          }
```

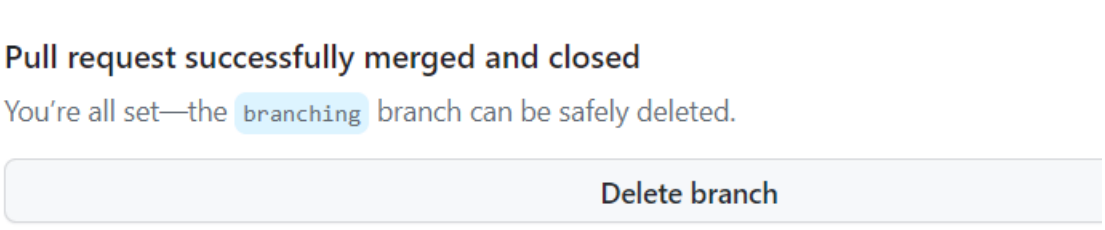
x) Then click on **'Create pull request'** , and give tittle and description.



xi) After this click on **merge pull request**.And **confirm merge.**

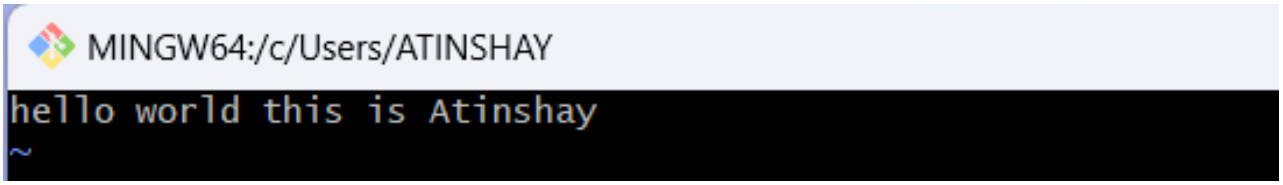


xii) If you want to delete the branch so you can delete by clicking on 'Delete branch'.

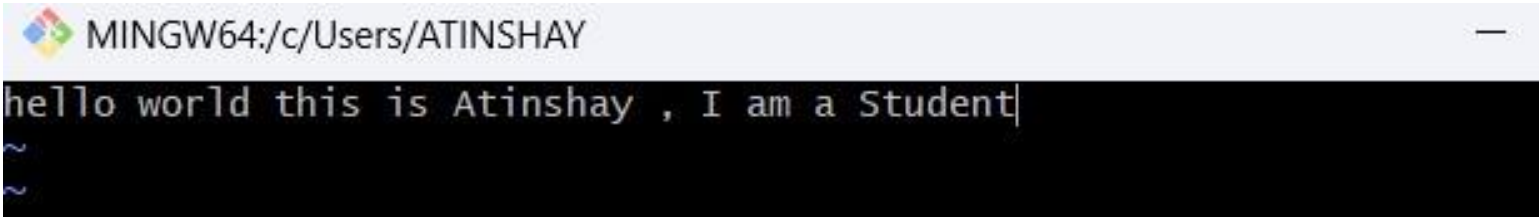


Creating Branch on Git Bash :

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 atinshay'**.
iv) Edit the file .



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



viii) Using command **'git add(atinshay)'** 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.
xi) Merge branch using 'git merge newbranch'.

MINGW64:/c/Users/ATINSHAY

```
ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (master)
$ git init
Reinitialized existing Git repository in C:/Users/ATINSHAY/.git/

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (master)
$ vi atinshay

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (master)
$ git add atinshay
warning: in the working copy of 'atinshay', LF will be replaced by CRLF the next
 time Git touches it

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (master)
$ git commit -m "first version"
[master (root-commit) 7391279] first version
 1 file changed, 1 insertion(+)
 create mode 100644 atinshay

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (master)
$ git checkout -b newbranch
Switched to a new branch 'newbranch'

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (newbranch)
$ vi atinshay

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (newbranch)
$ git add atinshay
warning: in the working copy of 'atinshay', LF will be replaced by CRLF the next
 time Git touches it

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (newbranch)
$ git commit -m "second version"
[newbranch 1b37b47] second version
 1 file changed, 1 insertion(+), 1 deletion(-)

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (newbranch)
$ git checkout master
Switched to branch 'master'

ATINSHAY@LAPTOP-89PKOAT0 MINGW64 ~ (master)
$ git merge newbranch
Updating 7391279..1b37b47
Fast-forward
 atinshay | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

5. Result/Output/Writing Summary:

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

6. 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.

5. I have learnt about

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.			