

Experiment -1.2

Student Name: Atinshay Awasthi

Branch: CSE-DevOps

Semester: 4th

Subject Name: Git And Github

UID: 22BDO10007

Section/Group: 22BCD-1/A

Date of Performance: 24/1/24

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.

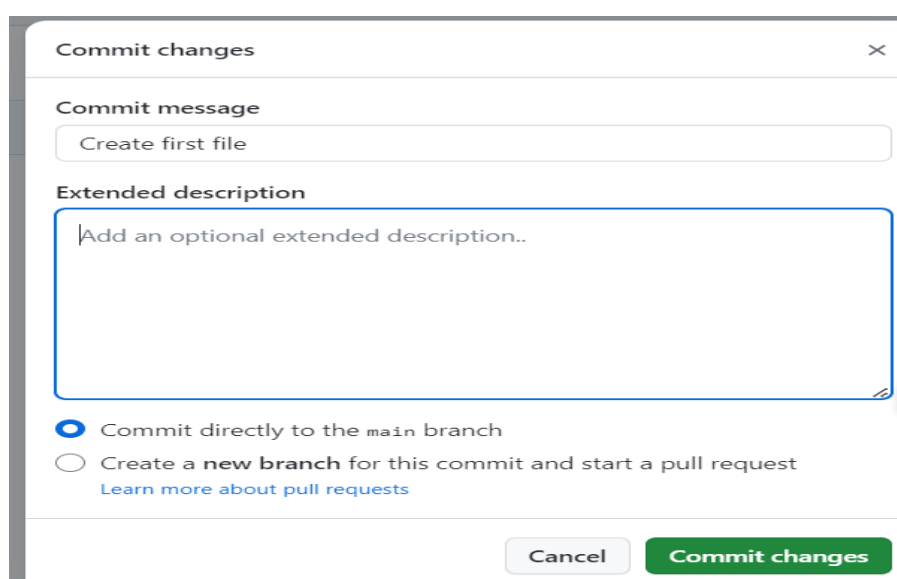
3. Apparatus: software used git hub and git bash

4. Steps for experiment/practical:

Creating Branch on GitHub :

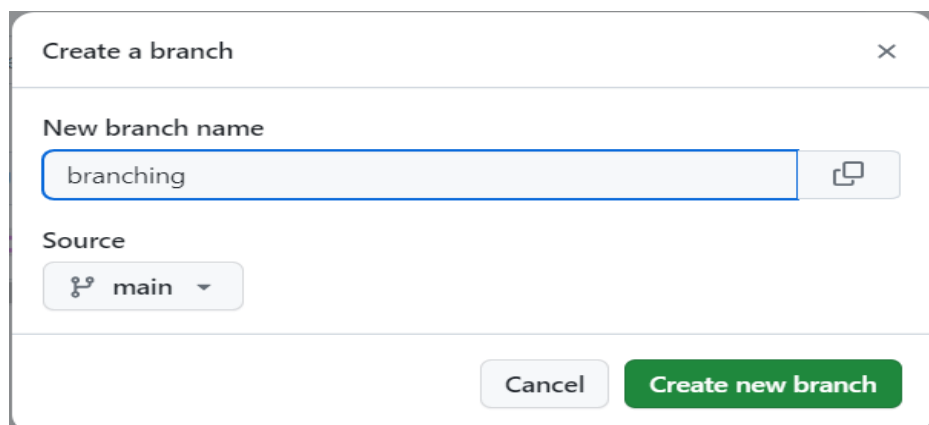
- i) Open your Github and go into repository “Demo” you want branching.
- ii) Add new file in that named “first file” , and after this just write the code,

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



The dialog box titled "Commit changes" contains a "Commit message" field with the placeholder text "Create first file". Below it is an "Extended description" field with the placeholder text "Add an optional extended description..". At the bottom, there are two radio button options: "Commit directly to the main branch" (which is selected) and "Create a new branch for this commit and start a pull request" (with a link "Learn more about pull requests"). At the very bottom are "Cancel" and "Commit changes" buttons.



- 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**.



The dialog box titled "Create a branch" contains a "New branch name" field with the text "branching" and a copy icon. Below it is a "Source" field with a dropdown menu showing "main". At the bottom are "Cancel" and "Create new branch" buttons.






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

Demo / first file 

 AtinshayAwasthi Update first file now 


16 lines (16 loc) · 323 Bytes

Code Blame

Raw     

```
1 //minimum value
2 #include<iostream>
3 #include<climits>
4 using namespace std;
5 int main()
6 {int x;
7     cin>>x;
8     int a[x];
9     cout<<"enter the elements:"<<endl;
10    for(int i=0;i<x;i++)
11        {cin>>a[i];}
12    int t=INT_MAX;
13    for(int i=0;i<x;i++){if(t>a[i]){
14        t=a[i];}}
15    cout<<"the minimum element is : "<< t;
16 }
```

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

Commit changes 

Commit message

Update first file

Extended description

Add an optional extended description..

☒ Commit directly to the main branch
☐ Create a new branch for this commit and start a pull request
[Learn more about pull requests](#)

Cancel

Commit changes

viii) Then in the repository go on “compare & pull request”.

ix) Here is the code comparison in split form.

@@ -3,14 +3,14 @@	
3 #include<climits>	3 #include<climits>
4 using namespace std;	4 using namespace std;
5 int main()	5 int main()
6 - {int n;	6 + {int x;
7 - cin>>n;	7 + cin>>x;
8 - int arr[n];	8 + int a[x];
9 cout<<"enter the elements:"<<endl;	9 cout<<"enter the elements:"<<endl;
10 - for(int i=0;i<n;i++)	10 + for(int i=0;i<x;i++)
11 - {cin>>arr[i];}	11 + {cin>>a[i];}
12 int t=INT_MAX;	12 int t=INT_MAX;
13 - for(int i=0;i<n;i++){if(t>arr[i]){	13 + for(int i=0;i<x;i++){if(t>a[i]){
14 - t=arr[i];}}	14 + t=a[i];}}
15 cout<<"the minimum element is : "<< t;	15 cout<<"the minimum element is : "<< t;
16 }	16 }

x) Then click on ‘Create pull request’ , and give title and description.

base: branching
compare: main

✓ Able to merge. These branches can be automatically merged.

Add a title

Update first file

Add a description


Write
Preview
H B I
≡ <>
≡ ≡ ≡
@

the code is edited


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



Create pull request

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


 **AtinshayAwasthi** commented now Owner ...

the code is edited




  Update first file c7e8


Add more commits by pushing to the **main** branch on **AtinshayAwasthi/Demo**.

 **Require approval from specific reviewers before merging** Add rule ×

[Rulesets](#) ensure specific people approve pull requests before they're merged.

 **Continuous integration has not been set up**

[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

 **This branch has no conflicts with the base branch**

Merging can be performed automatically.

Merge pull request ▼

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Merge pull request #1 from AtinshayAwasthi/main

Update first file

This commit will be authored by 157672307+AtinshayAwasthi@users.noreply.github.com

Confirm merge

Cancel

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

Pull request successfully merged and closed

You're all set—the **branching** branch can be safely deleted.

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 .

```
MINGW64:/c/Users/ATINSHAY
hello world this is Atinshay
~
```

- 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**'.

```
MINGW64:/c/Users/ATINSHAY
hello world this is Atinshay , I am a Student|
~
~
```

- 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-89PK0AT0 MINGW64 ~ (master)
$ git init
Reinitialized existing Git repository in C:/Users/ATINSHAY/.git/

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~ (master)
$ vi atinshay

ATINSHAY@LAPTOP-89PK0AT0 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-89PK0AT0 MINGW64 ~ (master)
$ git commit -m "first version"
[master (root-commit) 7391279] first version
1 file changed, 1 insertion(+)
create mode 100644 atinshay

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~ (master)
$ git checkout -b newbranch
Switched to a new branch 'newbranch'

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~ (newbranch)
$ vi atinshay

ATINSHAY@LAPTOP-89PK0AT0 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-89PK0AT0 MINGW64 ~ (newbranch)
$ git commit -m "second version"
[newbranch 1b37b47] second version
1 file changed, 1 insertion(+), 1 deletion(-)

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~ (newbranch)
$ git checkout master
Switched to branch 'master'

ATINSHAY@LAPTOP-89PK0AT0 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 successfully 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.			