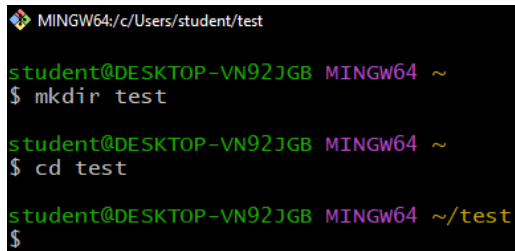


Experiment No. 3

Procedure :

Step 1 : Make a new directory and open the directory

A terminal window with a black background and a title bar that reads 'MINGW64:/c/Users/student/test'. The prompt is 'student@DESKTOP-VN92JGB MINGW64 ~'. The user enters '\$ mkdir test', and the prompt changes to 'student@DESKTOP-VN92JGB MINGW64 ~'. The user then enters '\$ cd test', and the prompt changes to 'student@DESKTOP-VN92JGB MINGW64 ~/test'. The user enters '\$' and the prompt remains 'student@DESKTOP-VN92JGB MINGW64 ~/test'.

```
MINGW64:/c/Users/student/test

student@DESKTOP-VN92JGB MINGW64 ~
$ mkdir test

student@DESKTOP-VN92JGB MINGW64 ~
$ cd test

student@DESKTOP-VN92JGB MINGW64 ~/test
$
```

Step 2 : Initialise a new repository

A terminal window with a black background and a title bar that reads 'MINGW64:/c/Users/student/test'. The prompt is 'student@DESKTOP-VN92JGB MINGW64 ~'. The user enters '\$ mkdir test', and the prompt changes to 'student@DESKTOP-VN92JGB MINGW64 ~'. The user then enters '\$ cd test', and the prompt changes to 'student@DESKTOP-VN92JGB MINGW64 ~/test'. The user enters '\$ git init', and the prompt changes to 'student@DESKTOP-VN92JGB MINGW64 ~/test (master)'. The user enters '\$ |' and the prompt remains 'student@DESKTOP-VN92JGB MINGW64 ~/test (master)'.

```
MINGW64:/c/Users/student/test

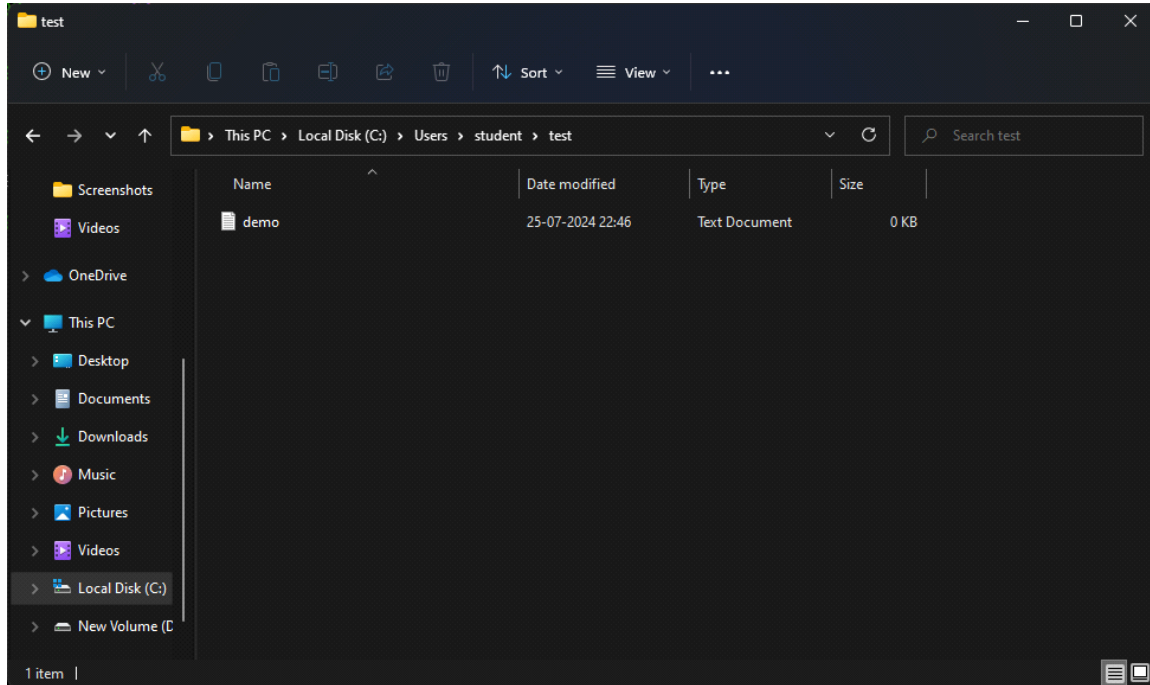
student@DESKTOP-VN92JGB MINGW64 ~
$ mkdir test

student@DESKTOP-VN92JGB MINGW64 ~
$ cd test

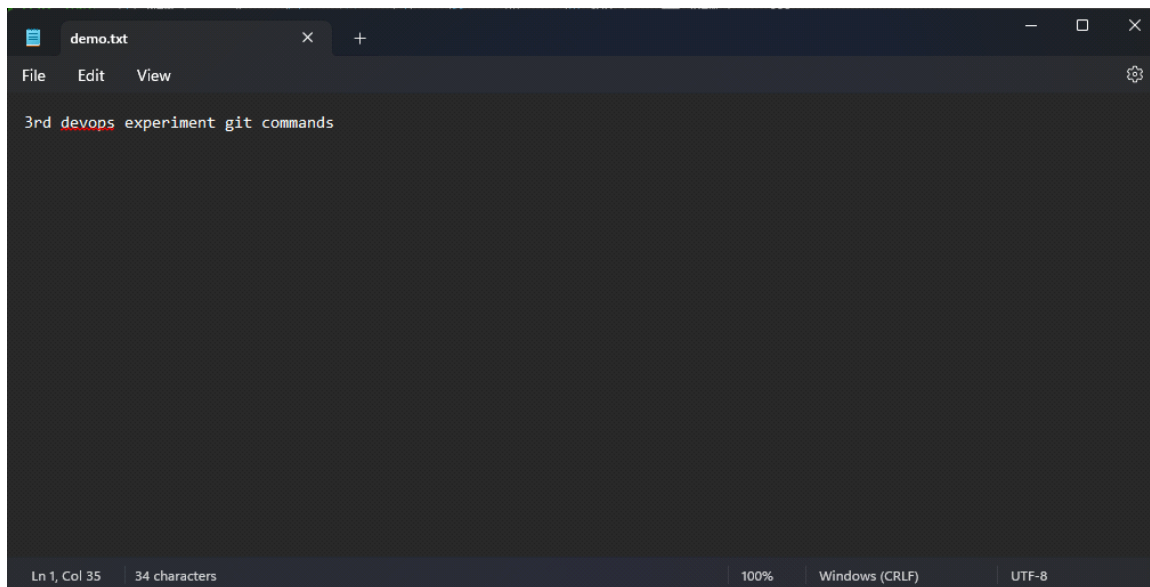
student@DESKTOP-VN92JGB MINGW64 ~/test
$ git init
Initialized empty Git repository in C:/Users/student/test/.git/

student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ |
```

Step 3 : Create a new text file in the new directory



Step 4 : Write into the text file



Step 5 : Check git status

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        demo.txt

nothing added to commit but untracked files present (use "git add" to track)

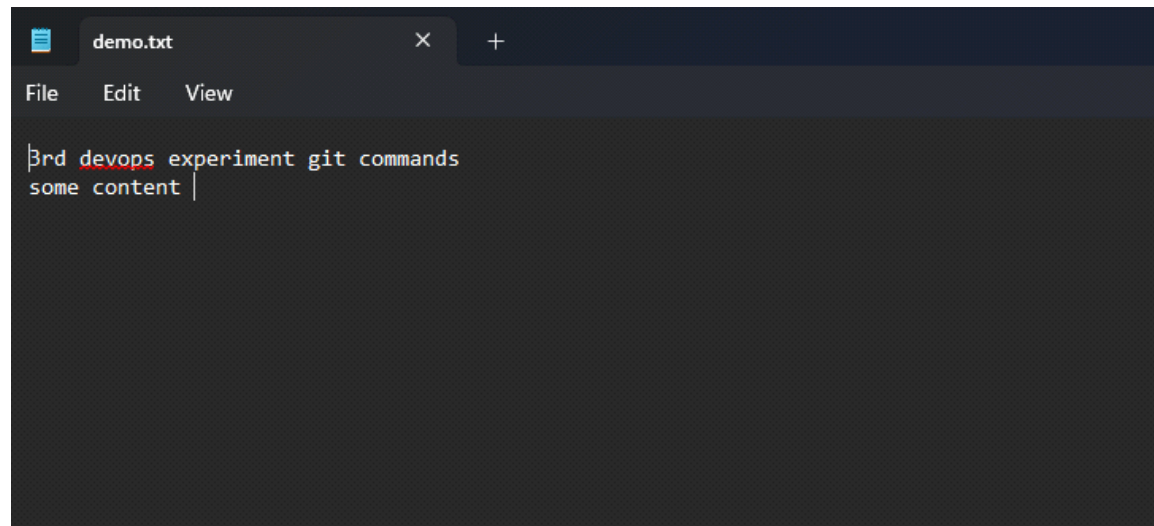
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ |
```

Step 6 : Perform git add command for the file

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git add demo.txt

student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ |
```

Step 7 : Write new content in the text file



The screenshot shows a text editor window with a single tab titled 'demo.txt'. The menu bar includes 'File', 'Edit', and 'View'. The text content of the file is as follows:

```
3rd devops experiment git commands
some content |
```

Step 8 : Use git diff command to identify the changes made

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git diff
diff --git a/demo.txt b/demo.txt
index b38a16e..cce0532 100644
--- a/demo.txt
+++ b/demo.txt
@@ -1,2 @@
-3rd devops experiment git commands
\ No newline at end of file
+3rd devops experiment git commands
+some content
\ No newline at end of file
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
```

Step 9 : Configure Github to Gitbash

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git config --global user.email bharatchoudhary1602@gmail.com

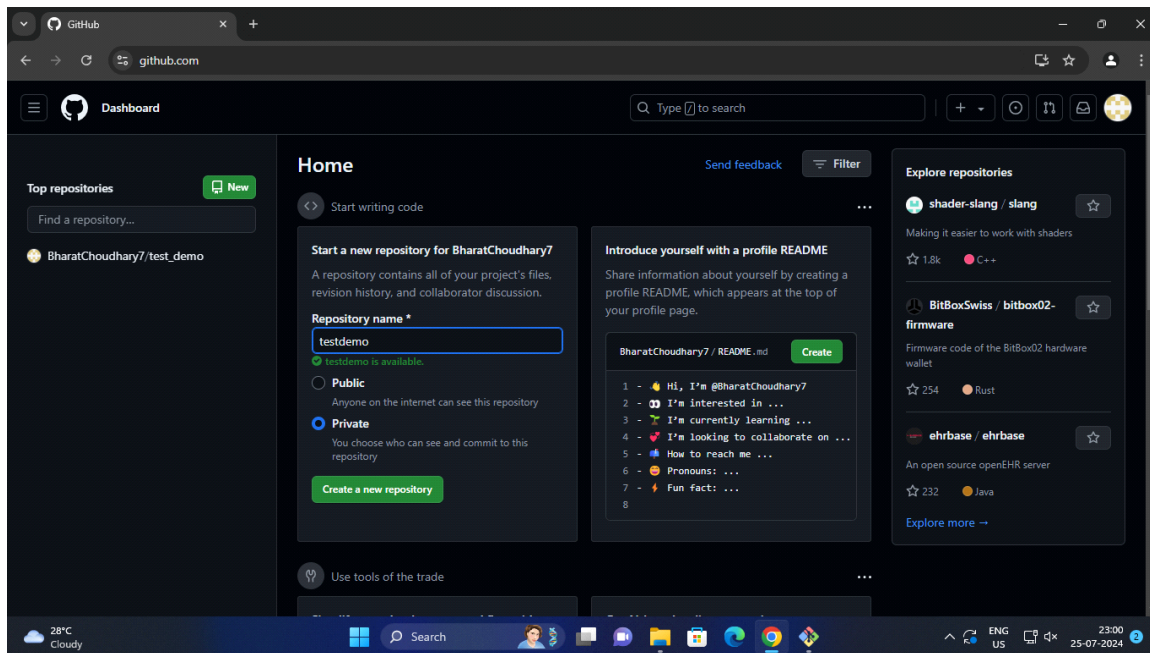
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git config --global user.name bharatchoudhary7
```

Step 10 : Perform git commit and add a commit message

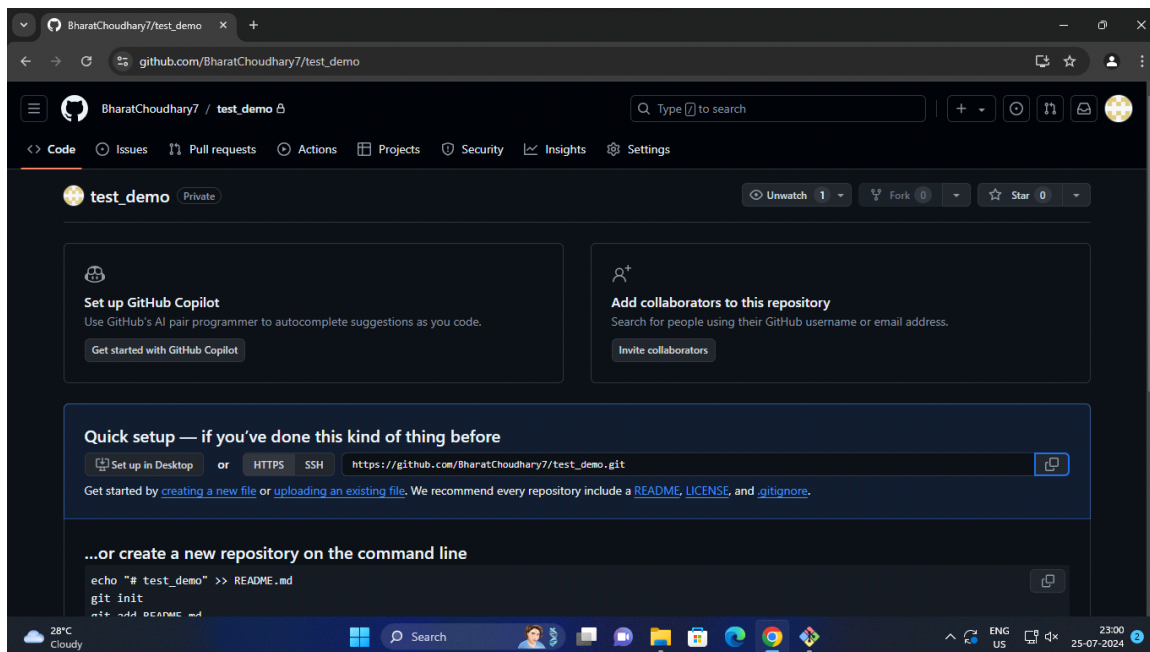
```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git commit -m "first commit"
[master (root-commit) 9be1212] first commit
1 file changed, 1 insertion(+)
create mode 100644 demo.txt

student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git push origin master
```

Step 11 : Create a new repository in your github account



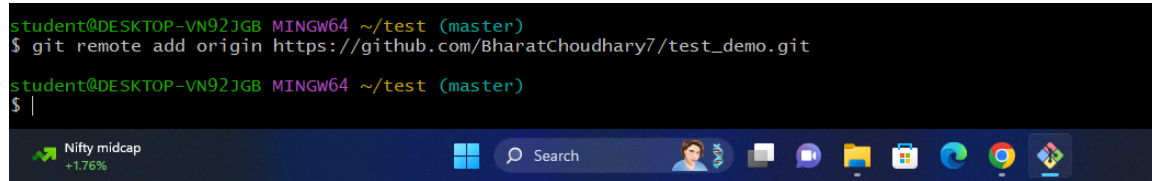
Step 12 : Open the repository and copy the repository HTTPS URL



Step 13 : Link remote repository

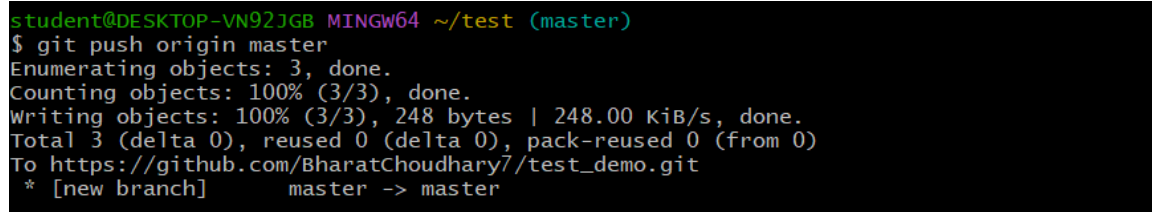
```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git remote add origin https://github.com/BharatChoudhary7/test_demo.git

student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ |
```

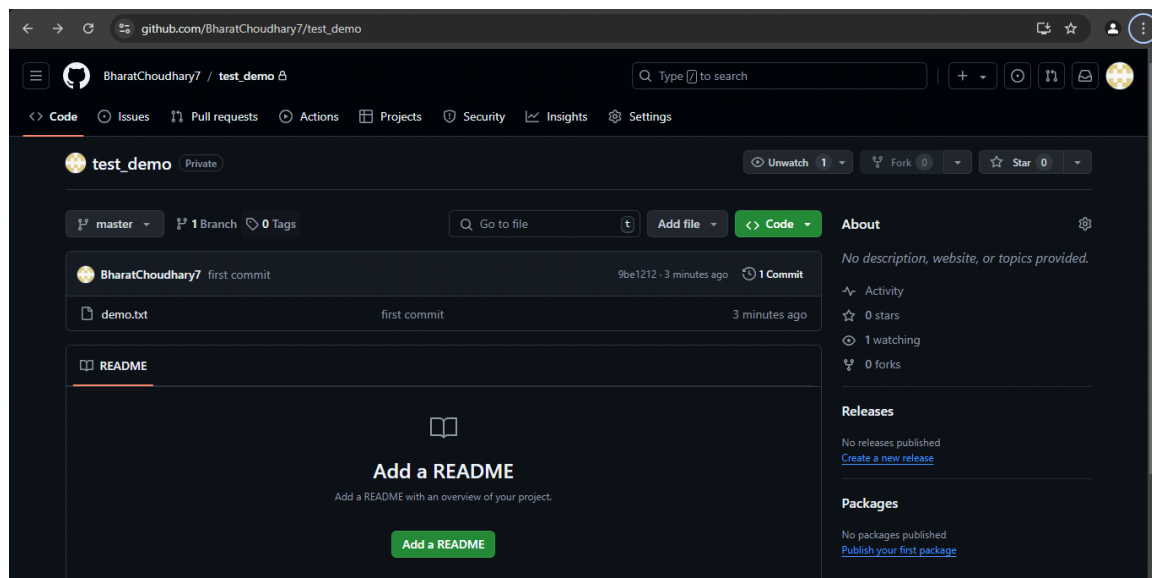
A terminal window with a dark background. The prompt is 'student@DESKTOP-VN92JGB MINGW64 ~/test (master)'. The first command is '\$ git remote add origin https://github.com/BharatChoudhary7/test_demo.git'. The second command is '\$ |'. The Windows taskbar is visible at the bottom with icons for Nifty midcap, Search, and various applications.

Step 14 : Push the file into remote repository

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 248 bytes | 248.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/BharatChoudhary7/test_demo.git
 * [new branch]      master -> master
```

A terminal window with a dark background. The prompt is 'student@DESKTOP-VN92JGB MINGW64 ~/test (master)'. The command is '\$ git push origin master'. The output shows the progress of pushing the file: 'Enumerating objects: 3, done.', 'Counting objects: 100% (3/3), done.', 'Writing objects: 100% (3/3), 248 bytes | 248.00 KiB/s, done.', 'Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)', and 'To https://github.com/BharatChoudhary7/test_demo.git * [new branch] master -> master'.

Step 15 : Commit is successful



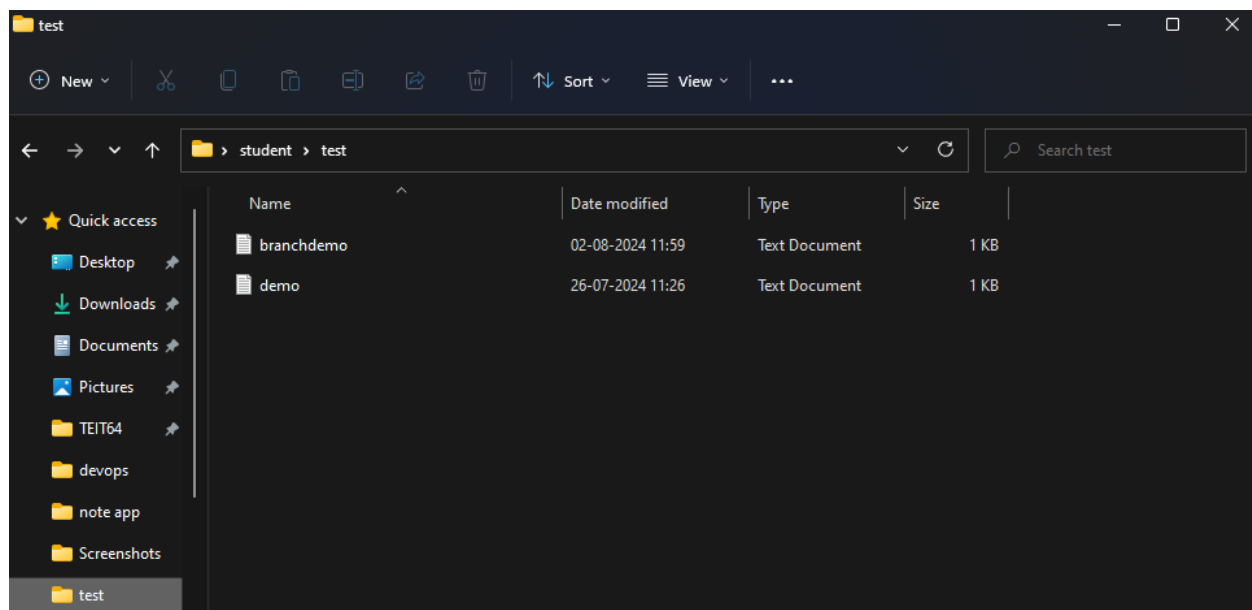
Step 16 : Create a new branch

```
student@DESKTOP-VN92JGB MINGW64 ~  
$ cd test  
  
student@DESKTOP-VN92JGB MINGW64 ~/test (master)  
$ git branch branch1  
  
student@DESKTOP-VN92JGB MINGW64 ~/test (master)  
$ git branch  
branch1  
* master
```

Step 17 : Switch to the new branch

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)  
$ git checkout branch1  
Switched to branch 'branch1'  
M      demo.txt  
  
student@DESKTOP-VN92JGB MINGW64 ~/test (branch1)  
$ git branch  
* branch1  
master
```

Step 18 : Make a new text file



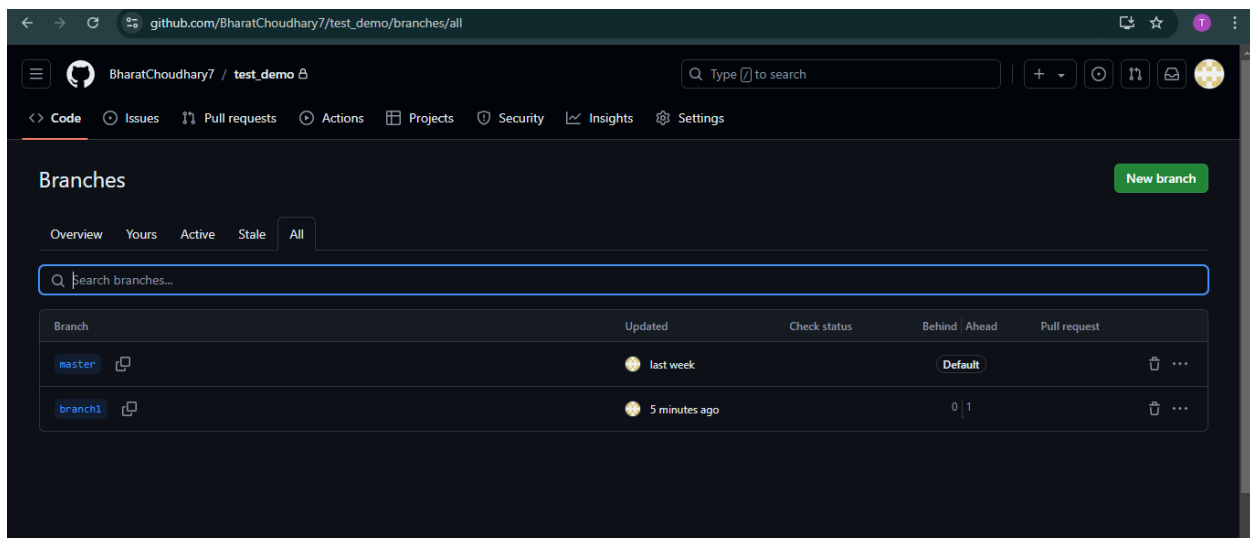
Step 19 : Add the branch and make a commit and push the branch

```
student@DESKTOP-VN92JGB MINGW64 ~/test (branch1)
$ git add branchdemo.txt

student@DESKTOP-VN92JGB MINGW64 ~/test (branch1)
$ git commit -m "branch commit"
[branch1 e8ed880] branch commit
1 file changed, 1 insertion(+)
create mode 100644 branchdemo.txt

student@DESKTOP-VN92JGB MINGW64 ~/test (branch1)
$ git push origin branch1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:   https://github.com/BharatChoudhary7/test_demo/pull/new/branch1
remote:
To https://github.com/BharatChoudhary7/test_demo.git
 * [new branch]      branch1 -> branch1
```

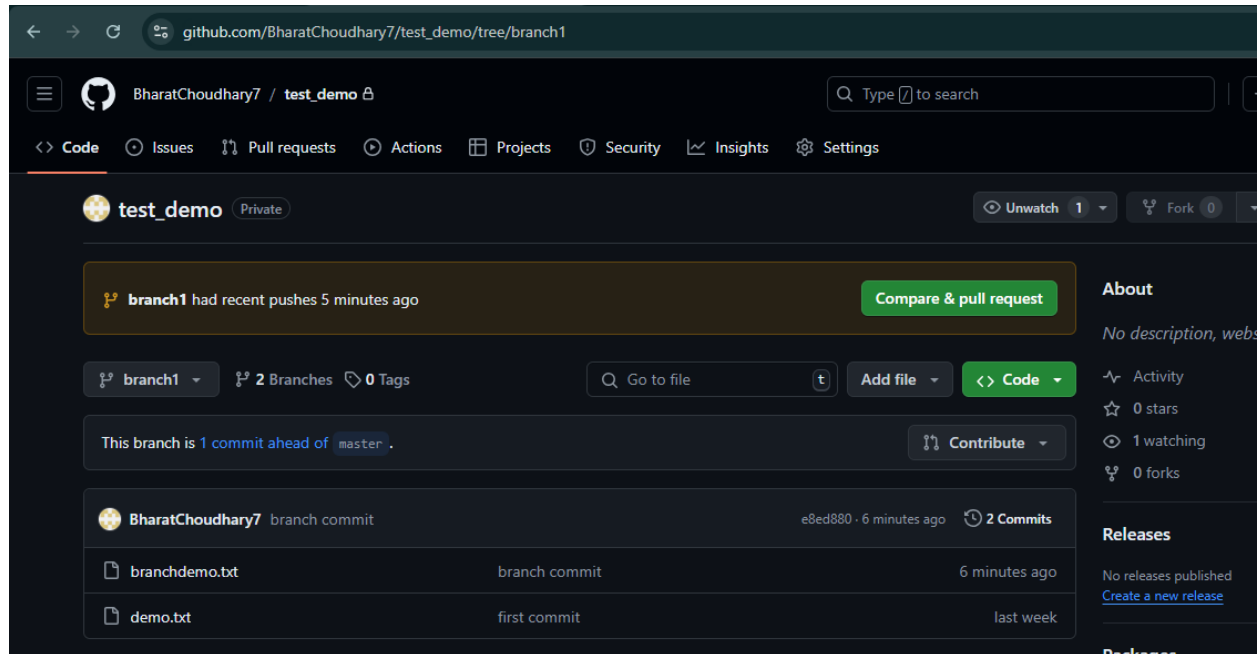
Step 20 : New branch is made successfully



The screenshot shows the GitHub interface for the repository 'BharatChoudhary7 / test_demo'. The 'Branches' tab is selected, displaying a table of branches. The 'branch1' branch is highlighted, indicating it is the current branch. The table shows that 'branch1' is ahead of 'master' by 1 commit.

Branch	Updated	Check status	Behind / Ahead	Pull request
master	last week		Default	
branch1	5 minutes ago		0 1	

Step 20 : Branches are not merged yet



Step 21 : Switch to master branch and merge newly created branch to master branch.

```
student@DESKTOP-VN92JGB MINGW64 ~/test (branch1)
$ git checkout master
Switched to branch 'master'
M       demo.txt

student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git merge branch1
Updating 9be1212..e8ed880
Fast-forward
 branchdemo.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 branchdemo.txt
```

Step 22 : Push the changes to remote repository

```
student@DESKTOP-VN92JGB MINGW64 ~/test (master)
$ git push origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/BharatChoudhary7/test_demo.git
    9be1212..e8ed880  master -> master
```

Step 23 : Branches are merged successfully.

