Step 1 : open a gitbash and create a new directory and open a directory

mkdir exp3

cd exp3

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~
$ mkdir exp3

yash doke@DESKTOP-AGB9TKN MINGW64 ~
$ cd exp3
```

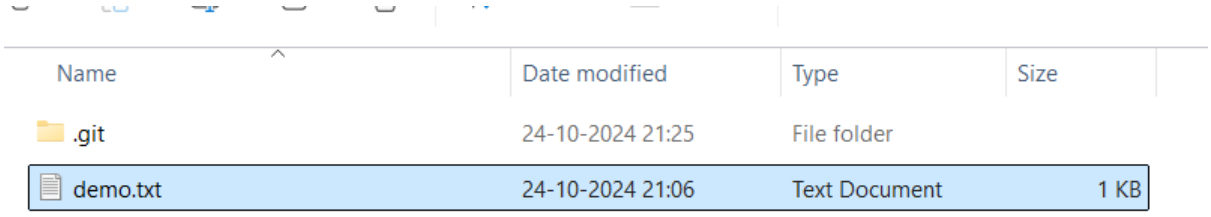
Step 2 : Initialise git inside directory

git init

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3
$ git init
Initialized empty Git repository in C:/Users/yash doke/exp3/.git/
```

Step 3 : copy the folder path and open a folder in a file explorer

Then create a new text file inside it and write some code in it




```
This is experiment 3
```

Step 3 : check git status

git status

```
$ 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)
```

Step 4 : add that file

git add demo.txt

Step 5 : add a new content in a file

File Edit View

```
This is experiment 3
first commit
second commit
```

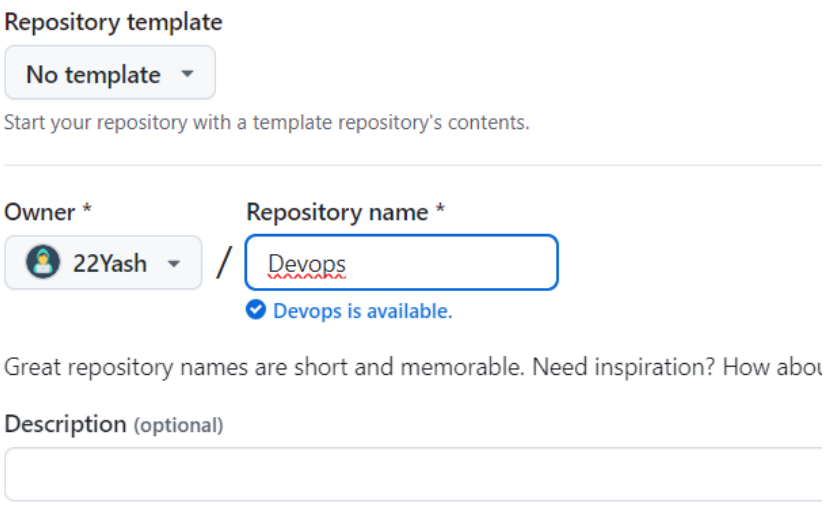
Step 6 : git diff

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git diff
diff --git a/demo.txt b/demo.txt
index 5059cd9..6ffef21 100644
--- a/demo.txt
+++ b/demo.txt
@@ -1,2 +1,3 @@
 This is experiment 3
-first commit
\ No newline at end of file
+first commit
+second commit
\ No newline at end of file
```

Step 7 : git commit -m “new commit”

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git commit -m "new commit"
[master (root-commit) 1be0309] new commit
 1 file changed, 2 insertions(+)
 create mode 100644 demo.txt
```

Step 8 : then create a new repository in github



Step 9 :

Open the repo and copy http url and perform a git push command

git remote add origin https://github.com/22Yash/Devops.git

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git remote add origin https://github.com/22Yash/Devops.git
```

Step 10 : git push origin master

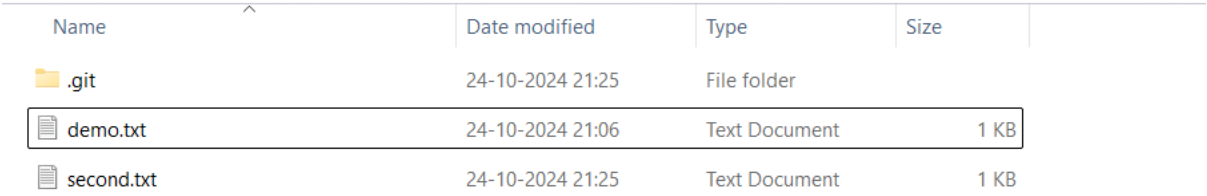
```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 241 bytes | 241.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/22Yash/Devops.git
 * [new branch]      master -> master
```

Step 11 : then create a new branch

git branch branch1

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git branch branch1

yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git branch
  branch1
* master
```

Step 12 : create a new text file in same folder



Name	Date modified	Type	Size
.git	24-10-2024 21:25	File folder	
demo.txt	24-10-2024 21:06	Text Document	1 KB
second.txt	24-10-2024 21:25	Text Document	1 KB

Step 13 : then switch to branch1

git checkout branch1

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git checkout branch1
Switched to branch 'branch1'
M       demo.txt

yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (branch1)
$ git branch
* branch1
  master
```

Step 14 : then add new created file in branch1

git add second.txt

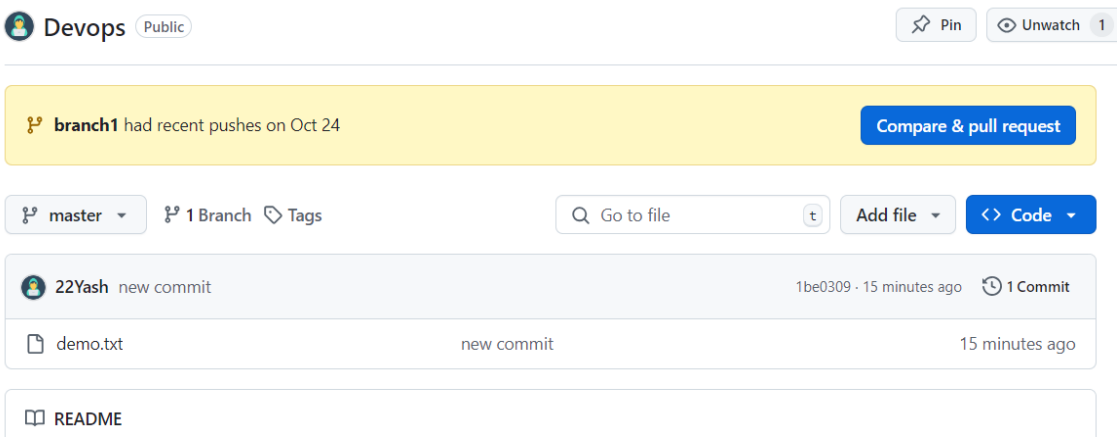
git status

git commit -m “branch commit”

git push origin branch1

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (branch1)
$ git add second.txt

yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (branch1)
$ git status
On branch branch1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   second.txt

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   demo.txt


yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (branch1)
$ git commit -m "branch commit"
[branch1 2a37d51] branch commit
 1 file changed, 1 insertion(+)
 create mode 100644 second.txt

yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (branch1)
$ git push origin branch1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:      https://github.com/22Yash/Devops/pull/new/branch1
remote:
To https://github.com/22Yash/Devops.git
 * [new branch]      branch1 -> branch1
```

Step 15 : new branch is created



Step 16 : then switch to master branch

git checkout master

git merge branch1

```
yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (branch1)
$ git checkout master
Switched to branch 'master'
M       demo.txt

yash doke@DESKTOP-AGB9TKN MINGW64 ~/exp3 (master)
$ git merge branch1
Updating 1be0309..2a37d51
Fast-forward
 second.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 second.txt
```

Step 17 : git push origin master