

1. Create a fresh repository by git only and upload file by using git only and do below functions on the same. And document each function with a screenshot.

Step 1: create a folder with the name "Test" and put some files on it.

Git command:

```
MINGW64:/c/Users/farhan/Desktop/Test
farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop (master)
$ git config --global user.name
mohd Farman

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop (master)
$ git config --global user.email
mohd.farman1010@gmail.com

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop (master)
$ mkdir Test

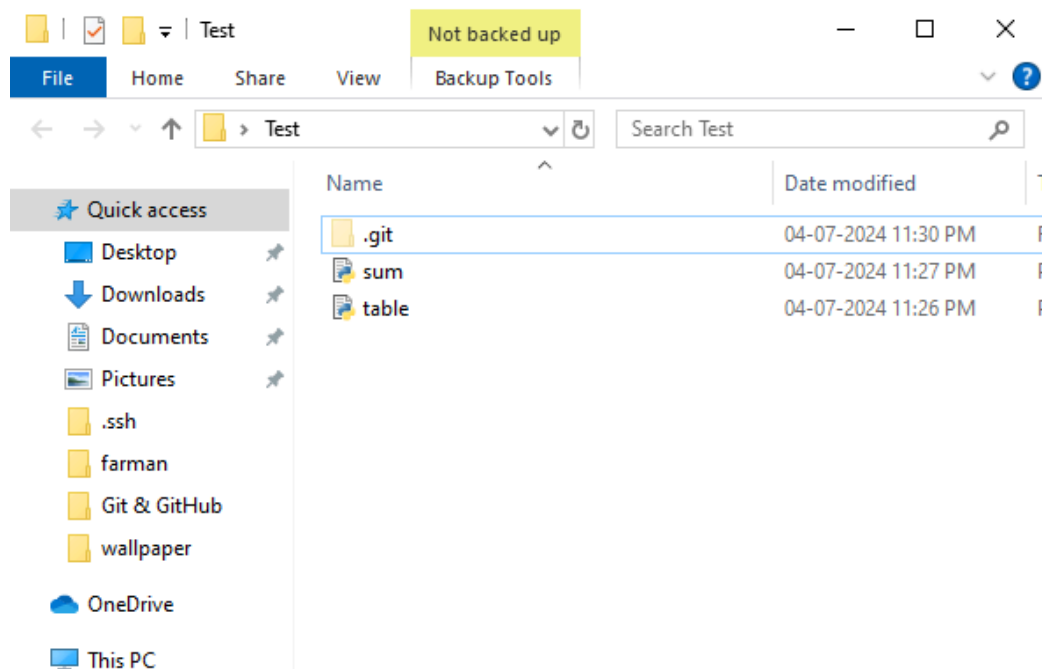
farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop (master)
$ cd Test

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ init
bash: init: command not found

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git init
Initialized empty Git repository in C:/Users/farhan/Desktop/Test/.git/


farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$
```

Output:

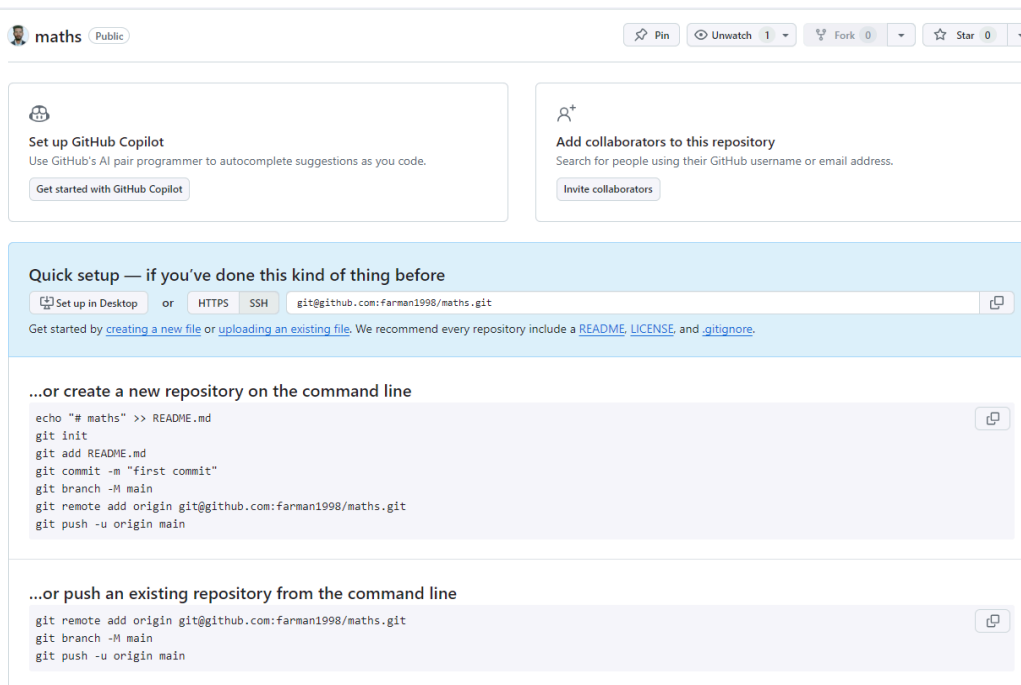


Step 2: create a repository with your desired name(*math*) and copy its link.

e.g. [git@github.com:farman1998/math.git](https://github.com/farman1998/math.git)

1. In the upper-right corner of any page, select , then click New repository.
2. Type a short, memorable name for your repository. For example, "math".
3. Optionally, add a description of your repository. For example, "this repo is only for practicing git commands to upload files."
4. Choose a repository visibility. For more information, see "[About repositories](#)."
5. Select Initialize this repository with a README.
6. Click Create repository.

Congratulations! You've successfully created your first repository, and initialized it with a README file.



The screenshot shows the GitHub interface for a newly created repository named "maths". At the top, there are buttons for "Pin", "Unwatch" (with a count of 1), "Fork" (with a count of 0), and "Star" (with a count of 0). Below these are two main sections: "Set up GitHub Copilot" and "Add collaborators to this repository". The "Set up GitHub Copilot" section includes a button "Get started with GitHub Copilot". The "Add collaborators to this repository" section includes a button "Invite collaborators". Below these sections is a "Quick setup" section with a dropdown menu for "Set up in Desktop" or "HTTPS" or "SSH", and a text input field containing the repository URL "git@github.com:farman1998/math.git". Below the "Quick setup" section is a section titled "...or create a new repository on the command line" with a code block containing the following commands:

```
echo "# maths" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:farman1998/math.git
git push -u origin main
```

Below this section is another section titled "...or push an existing repository from the command line" with a code block containing the following commands:

```
git remote add origin git@github.com:farman1998/math.git
git branch -M main
git push -u origin main
```

Step 3: Upload test folder all files into math repository

Git command:

```
MINGW64:/c/Users/farhan/Desktop/Test


farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git remote add origin https://github.com/farman1998/math.git

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git add .

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git commit -m "first commit"
[master (root-commit) 1f318b0] first commit
 2 files changed, 7 insertions(+)
 create mode 100644 sum.py
 create mode 100644 table.py

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 356 bytes | 356.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/farman1998/math.git
 * [new branch]      master -> master
```

Output:

 **math** Public Pin Unwatch

master


1 Branch



0 Tags

Go to file


Add file

Code

 **farman1998** first commit 1f318b0 · 9 minutes ago 1 Commit

 sum.py	first commit	9 minutes ago
 table.py	first commit	9 minutes ago

README



Add a README

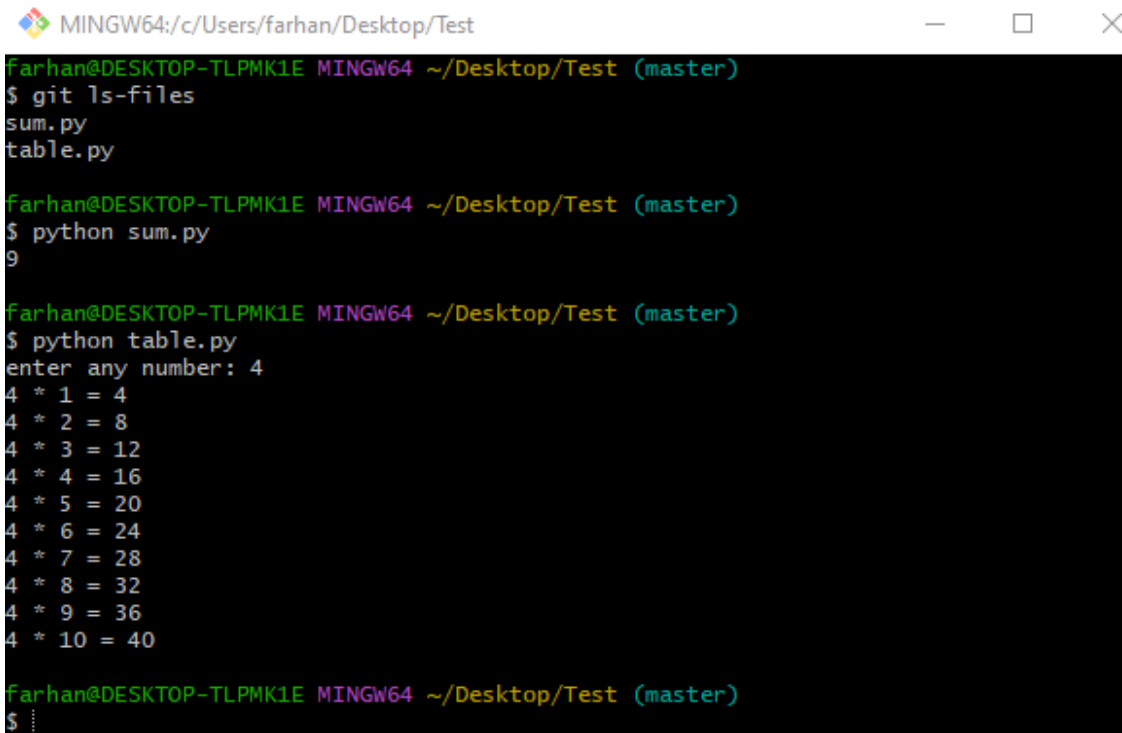
Help people interested in this repository understand your project by adding a README.

Add a README

Functions:

A. Run the program and project by git only

Git command:



The screenshot shows a Windows command prompt window titled "MINGW64:/c/Users/farhan/Desktop/Test". The prompt is "farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)". The user enters the command "git ls-files", which lists "sum.py" and "table.py". Then, the user enters "python sum.py", which outputs "9". Next, the user enters "python table.py", which prompts "enter any number: 4". The program then displays a multiplication table for the number 4, from 4 * 1 to 4 * 10. Finally, the user enters a dollar sign "\$" to show the prompt again.

```
MINGW64:/c/Users/farhan/Desktop/Test
farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git ls-files
sum.py
table.py

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ python sum.py
9

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ python table.py
enter any number: 4
4 * 1 = 4
4 * 2 = 8
4 * 3 = 12
4 * 4 = 16
4 * 5 = 20
4 * 6 = 24
4 * 7 = 28
4 * 8 = 32
4 * 9 = 36
4 * 10 = 40

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$
```


B. Add any one pdf file from your local to GitHub by git

Git command:

```
MINGW64; c:/Users/farhan/Desktop/Test
$
Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        farman.pdf





nothing added to commit but untracked files present (use "git add" to track)
Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git add farman.pdf
Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git commit -m "second commit"
[master c67e1ae] second commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 farman.pdf
Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 581.46 KiB | 25.28 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/farman1998/math.git
1f318b0..c67e1ae master -> master
```

Output:


 **math** Public Pin Unwatch

master 1 Branch 0 Tags

Go to file t Add file <> Code

 farman1998 second commit c67e1ae · 6 minutes ago 2 Commits
 farman.pdf second commit 6 minutes ago
 sum.py first commit 37 minutes ago
 table.py first commit 37 minutes ago

README



Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

C. Clone any github repository by git.

Git command:

```
MINGW64:/c/Users/farhan/Desktop/Test/math

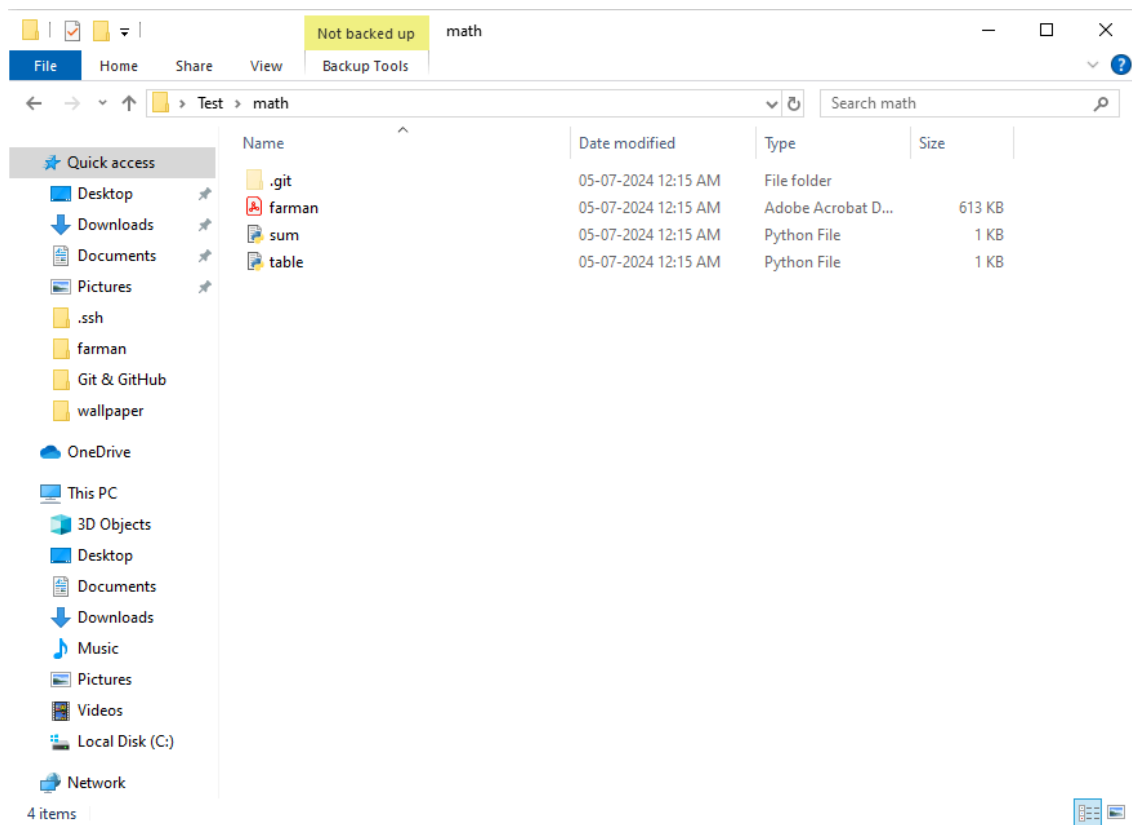
farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ git clone https://github.com/farman1998/math.git
Cloning into 'math'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), 581.77 KiB | 1.88 MiB/s, done.

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ ls
farman.pdf  math/  sum.py  table.py

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test (master)
$ cd math

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/Test/math (master)
$ ls
farman.pdf  sum.py  table.py
```

Output:



2. Environment variables shouldn't get uploaded on GitHub so how will you delete the environment file while uploading codebase on GitHub?

Git command:

Step1. Remove .eve files from directory

```
MINGW64/c/Users/farhan/Desktop/test
Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ ls -l
total 619
-rw-r--r-- 1 farhan 197121 49 Jul 5 00:55 ev.eve
-rw-r--r-- 1 farhan 197121 627164 Jul 4 11:09 farman.pdf
drwxr-xr-x 1 farhan 197121 0 Jul 5 00:15 math/
-rw-r--r-- 1 farhan 197121 29 Jul 4 23:27 sum.py
-rw-r--r-- 1 farhan 197121 102 Jul 4 23:26 table.py

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git rm -r 'ev.eve'
rm 'ev.eve'

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git commit -m "delete eve"
[master 18ffdc] delete eve
1 file changed, 3 deletions(-)
delete mode 100644 ev.eve

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

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

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

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git add .gitignore
fatal: pathspec '.gitignore' did not match any files
```

Step2. Add all codebase programs into the github directory from the local repository.

```
MINGW64/c/Users/farhan/Desktop/test
Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   .gitignore
        new file:   math

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git commit -m "add gitignore"
[master fa0b3c0] add gitignore
2 files changed, 3 insertions(+)
create mode 100644 .gitignore
create mode 160000 math

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git -v
git version 2.45.2.windows.1

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git remote -v
origin https://github.com/farman1998/ProblemStatement_2.git (fetch)
origin https://github.com/farman1998/ProblemStatement_2.git (push)

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git remote set-url origin https://github.com/Farman1998/ProblemStatement2.git

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git push origin master
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 4 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (14/14), 582.45 KiB | 24.27 MiB/s, done.
Total 14 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/Farman1998/ProblemStatement2.git
 * [new branch] master -> master

Farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ |
```


Output:

Before removing ev.eve file


Test				
Quick access				
Desktop				
Downloads				
Documents				
Pictures				
.ssh				
farman				
Git & GitHub				
wallpaper				
OneDrive				
This PC				
3D Objects				
Desktop				
Documents				
Downloads				
Music				
Pictures				
Videos				
Local Disk (C:)				
Network				
Name	Date modified	Type	Size	
.git	05-07-2024 03:57 PM	File folder		
math	05-07-2024 12:15 AM	File folder		
.gitignore	05-07-2024 01:23 AM	Text Document	1 KB	
ev.eve	05-07-2024 04:29 PM	EVE File	1 KB	
farman	04-07-2024 11:09 AM	Adobe Acrobat D...	613 KB	
sum	04-07-2024 11:27 PM	Python File	1 KB	
table	04-07-2024 11:26 PM	Python File	1 KB	






Output:


Output after removing ev.eve files from local repository and add into github repository.


 **ProblemStatement2** Public Pin Unwatch

master 1 Branch 0 Tags Add file <> Code

 **farman1998** add gitignore fa0b3c0 · 35 minutes ago 5 Commits

 math	add gitignore	35 minutes ago
 .gitignore	add gitignore	35 minutes ago
 farman.pdf	second commit	16 hours ago
 sum.py	first commit	17 hours ago
 table.py	first commit	17 hours ago

 **README**



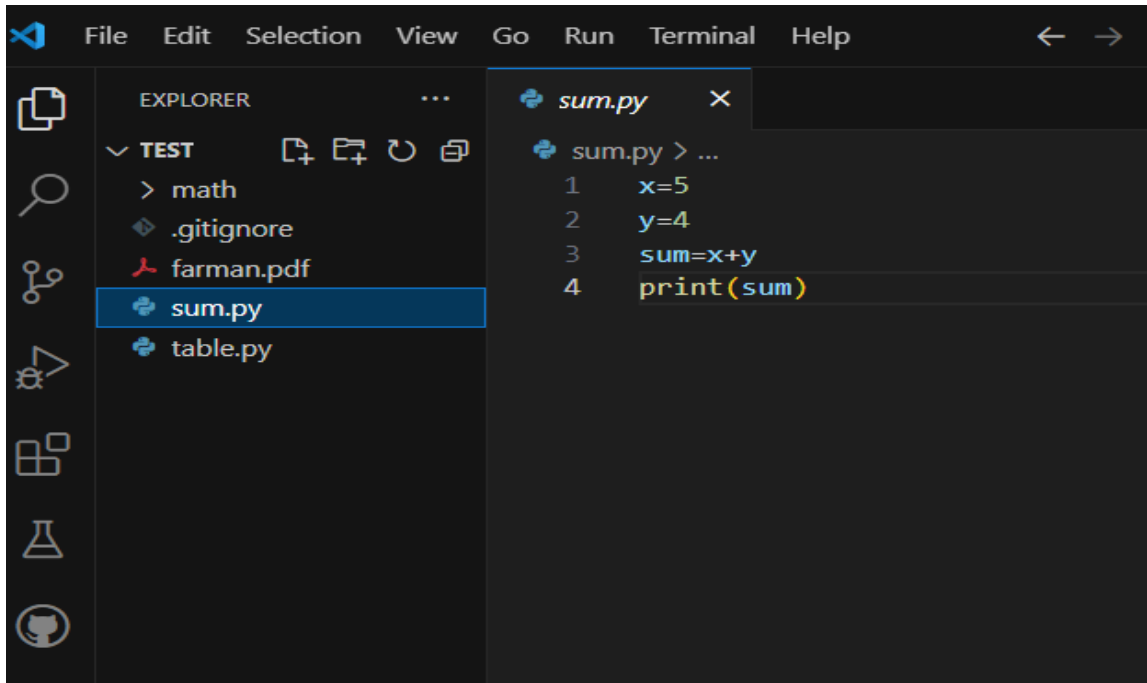
Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

B. Change any line in code and do commit in any file of repository.

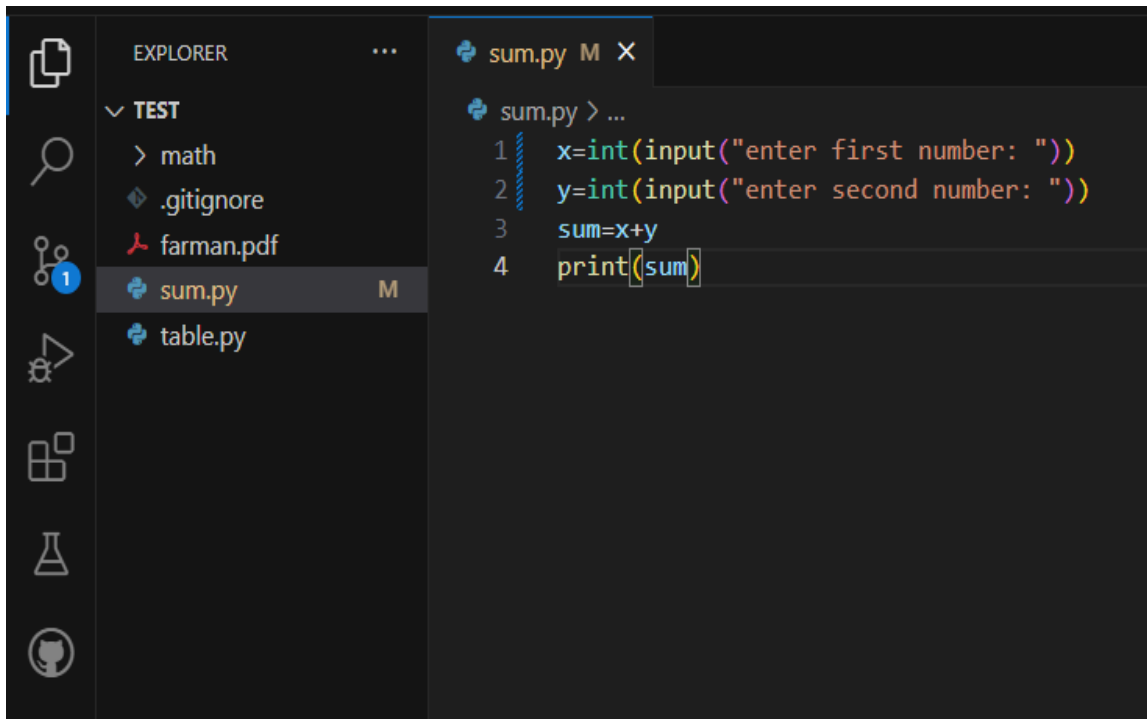
Before change



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with a folder named 'TEST' containing files 'math', '.gitignore', 'farman.pdf', 'sum.py', and 'table.py'. The 'sum.py' file is selected and highlighted. The main editor area shows the code for 'sum.py' with the following content:

```
sum.py > ...  
1 x=5  
2 y=4  
3 sum=x+y  
4 print(sum)
```


After change



The screenshot shows the Visual Studio Code interface after modifications. The Explorer panel on the left shows the 'sum.py' file with a blue 'M' icon, indicating it has been modified. The main editor area shows the updated code for 'sum.py' with the following content:

```
sum.py M X  
sum.py > ...  
1 x=int(input("enter first number: "))  
2 y=int(input("enter second number: "))  
3 sum=x+y  
4 print(sum)
```

Git base code after change in code and commit

 MINGW64:/c/Users/farhan/Desktop/test

```
farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop
$ cd test

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ status
bash: status: command not found

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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:   sum.py

no changes added to commit (use "git add" and/or "git commit -a")

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git add .

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   sum.py

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ git commit -m "change sucessfull"
[master e9e11ea] change sucessfull
1 file changed, 2 insertions(+), 2 deletions(-)

farhan@DESKTOP-TLPMK1E MINGW64 ~/Desktop/test (master)
$ |
```