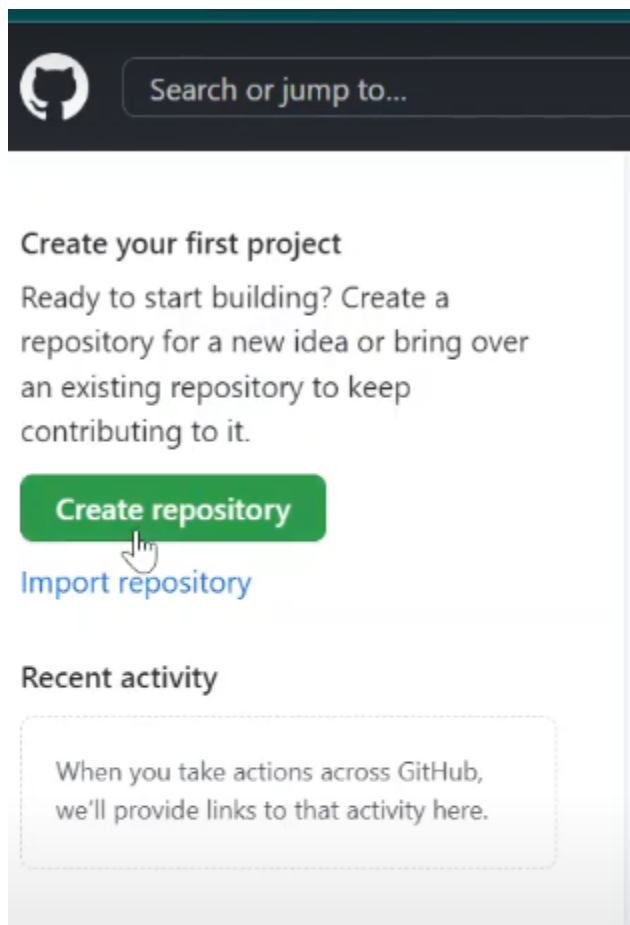


Step 1: register into github to push all our code into it:

1. Navigate to <https://github.com/>.
2. Click Sign up by entering email address, password, and username
3. Now we will get the verification link to our mentioned email address, verify it

Step 2: creating the new repository in github account by clicking create repository as follows:




1. Enter new repository name(bash_project)
2. Select the repository should be public or private
3. Select add a README file if you need
4. Click create repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *

 affordablewebapp ▾

Repository name *

/

Great repository names are short and memorable. Need inspiration? How about [didactic-journey?](#)

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ **Add a README file**

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore


Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: **None** ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

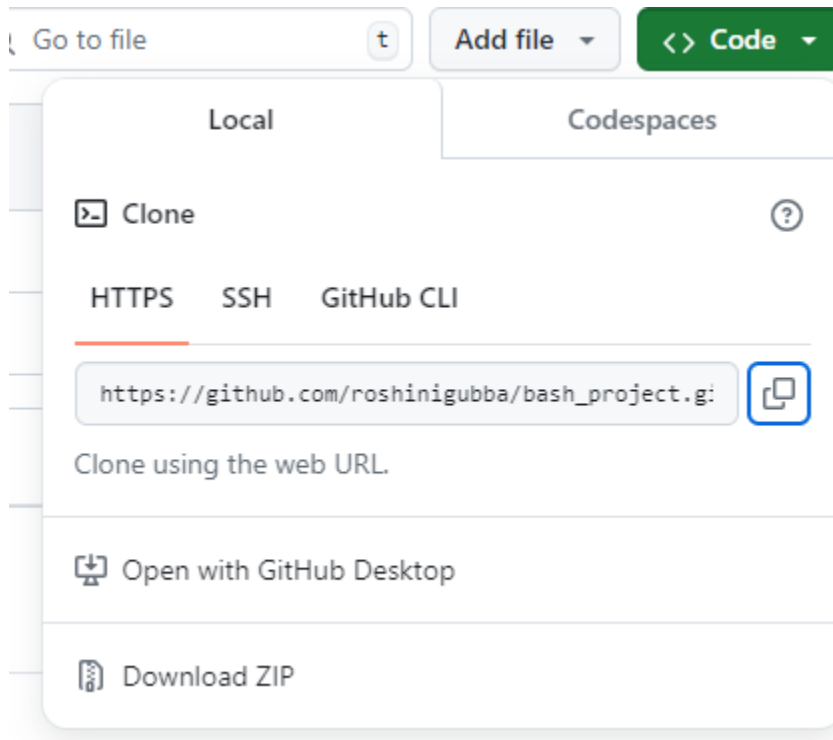
License: **None** ▾

 You are creating a public repository in your personal account.

Create repository

Step 3: cloning the git repository:

1. Copy the repository https link from github and paste it in the git bash:



2. Copy that https link as following in git bash for cloning:

```
MINGW64:/c/Users/roshini.gubba/bash_project

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~ (master)
$ git clone https://github.com/roshinigubba/bash_project.git
Cloning into 'bash_project'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~ (master)
```

3. We will clone that repository into our git bash to update the repository from our computer by pushing code, files, creating branches through git bash

Step 4: we will list all the directories, to find our git repository in our local computer:

```

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~ (master)
$ ls
'3D Objects'/
AppData/
'Application Data'@
Contacts/
Cookies@
Desktop/
DevOps/
Documents/
Downloads/
Favorites/
IntelGraphicsProfiles/
Links/
Linux-_project/
'Local Settings'@
Music/
'My Documents'@
NTUSER.DAT
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.b1f
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer000000000000000000
1.regtrans-ms
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer000000000000000000
2.regtrans-ms
NetHood@
OneDrive/
Pictures/
PrintHood@
Recent@
'Saved Games'/
Searches/
SendTo@
'Start Menu'@
Templates@
Videos/
'VirtualBox VMs'/
'WPS Cloud Files'/
bash_project/
dataresource1.tf
graph.svg
linux_project2/

```

Step 5: we will change directory to bash_project directory to add or update the files or code, or creating directories:

```

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~ (master)
$ cd bash_project/

```

Step 6: creating a directory name as scripts to push all the scripts into it:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ mkdir scripts
```

Step 7: Go to scripts directory and create the collector file as file1:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/scripts (main)
$ touch file1
```

Step 8: initialize git by using git init:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git init
Reinitialized existing Git repository in C:/Users/roshini.gubba/bash_project/.git/
```

Step 9: After that we should add that directory into git by using **git add filename** :

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .
```

add . : to add/update all the files at the time.

Step 10 : After adding file, we get staged file, now we have to commit the staged file:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "1st commit"
[main 61f9a06] 1st commit
1 file changed, 1 deletion(-)
delete mode 160000 scripts
```

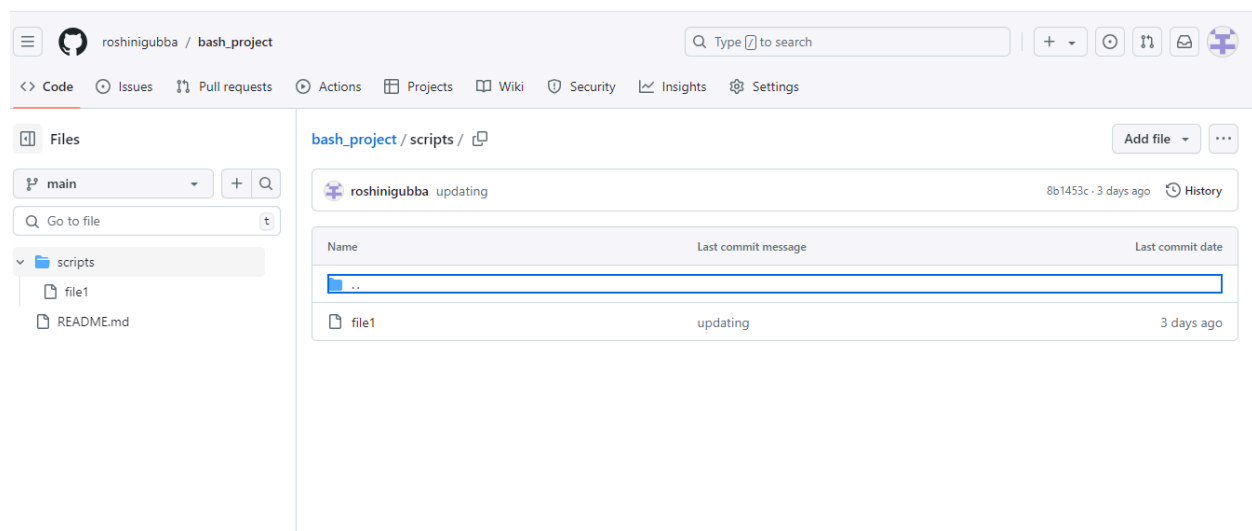
Step 11: push that committed file/directory into git:

```

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (2/2), 245 bytes | 122.00 KiB/s, done.
Total 2 (delta 0), reused 1 (delta 0), pack-reused 0
To https://github.com/roshinigubba/bash_project.git
 793fe24..61f9a06  main -> main

```

After creating the scripts directory, creating the file inside that directory and pushing into git , it gets updated in git as follows:

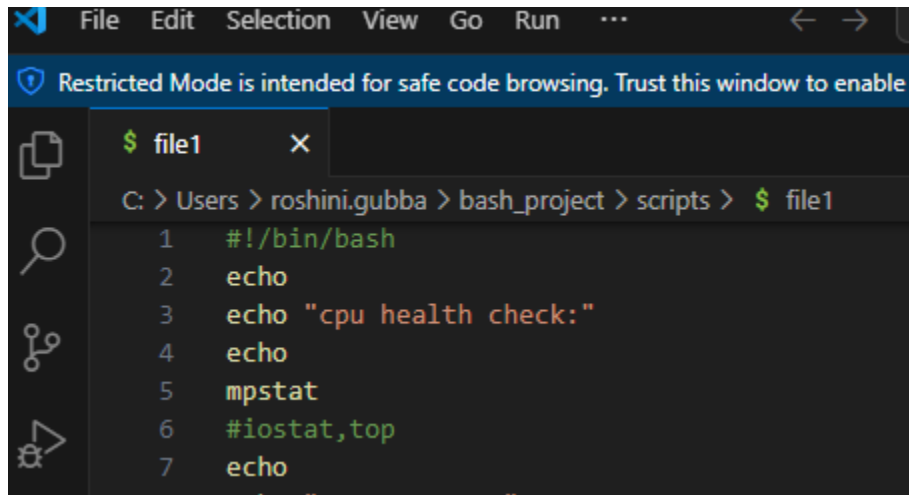


Step 12: open the file in vs code or any editor, write the script and save it, and do the following steps again after writing and saving the script:

1. git init
2. git add filename (or) git add .
3. Git commit -m "message of the file what we have updated"
4. git push origin main

Find the location of bash_project directory in our computer and edit that file or write the script in that file by going into that location of the file:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ pwd
/c/Users/roshini.gubba/bash_project
```



The screenshot shows a code editor window with a menu bar (File, Edit, Selection, View, Go, Run, ...) and a toolbar. A notification bar at the top states: "Restricted Mode is intended for safe code browsing. Trust this window to enable...". The editor has a tab titled "\$ file1" with a close button. The file path is displayed as "C: > Users > roshini.gubba > bash_project > scripts > \$ file1". The script content is as follows:

```
1  #!/bin/bash
2  echo
3  echo "cpu health check:"
4  echo
5  mpstat
6  #iostat,top
7  echo
```


Save the file after writing the script, then follow the steps like, init, add, commit, push

```
MINGW64:/c/Users/roshini.gubba/bash_project
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding cpu health check"
[main a6c5f89] adding cpu health check
1 file changed, 7 insertions(+)

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 404 bytes | 67.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/roshinigubba/bash_project.git
4b29a0e..a6c5f89  main -> main
```

```
echo "memory usage"
free -h
echo
echo "disk usage"
echo
df -h
echo
```

 MINGW64:/c/Users/roshini.gubba/bash_project

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding memory and disk usage"
[main 54a8994] adding memory and disk usage
1 file changed, 7 insertions(+)

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 438 bytes | 109.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/roshinigubba/bash_project.git
a6c5f89..54a8994 main -> main
```

```
echo
echo "network interface status and their throughput"
ifconfig
#ip -s link
echo
echo " running process"
ps aux
# ps aux | awk '$8=="R">{print$0}'
echo
```


MINGW64:/c/Users/roshini.gubba/bash_project

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding network interface status"
[main 7e0b66f] adding network interface status
1 file changed, 4 insertions(+)

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 451 bytes | 150.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/roshinigubba/bash_project.git
54a8994..7e0b66f main -> main

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding running process"
[main e01f530] adding running process
1 file changed, 4 insertions(+)

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 478 bytes | 95.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/roshinigubba/bash_project.git
7e0b66f..e01f530 main -> main
```

```
22 echo
23 echo "system uptime"
24 uptime
25 echo
26 echo "critical errors in system logs"
27 journalctl -p 3 -xb
28 echo
29
```

MINGW64:/c/Users/roshini.gubba/bash_project

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding uptime"
[main 107bea5] adding uptime
1 file changed, 3 insertions(+)

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 389 bytes | 97.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/roshinigubba/bash_project.git
   e01f530..107bea5  main -> main

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding critical errors"
[main 172f55c] adding critical errors
1 file changed, 3 insertions(+)

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 487 bytes | 162.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/roshinigubba/bash_project.git
   107bea5..172f55c  main -> main
```

Step by step it is updated in git after pushing that code into the git repository as follows:

Files

main

Go to file

scripts

file1

README.md

Code

Blame

28 lines (28 loc) · 384 Bytes

Code 55% faster with GitHub Copilot

```
1  #!/bin/bash
2  echo
3  echo "cpu health check:"
4  echo
5  mpstat
6  #iostat,top
7  echo
8  echo "memory usage"
9  free -h
10 echo
11 echo "disk usage"
12 echo
13 df -h
14 echo
15 echo "network interface status and their throughput"
16 ifconfig
17 #ip -s link
18 echo
19 echo " running process"
20 ps aux
21 # ps aux | awk '$8=="R"{print$0}'
22 echo
23 echo "system uptime"
24 uptime
25 echo
26 echo "critical errors in system logs"
27 journalctl -p 3 -xb
--
```

It also list all the commits whatever we have done:

Commits

main

All users

All time

Commits on Aug 9, 2024

| | | | | |
|-----------------------------------|---------|--|----|-----|
| updating | 8b1453c | | <> | ... |
| roshinigubba committed 3 days ago | | | | |
| adding critical errors | 172f55c | | <> | ... |
| roshinigubba committed 3 days ago | | | | |
| adding uptime | 187bea5 | | <> | ... |
| roshinigubba committed 3 days ago | | | | |
| adding running process | e01f538 | | <> | ... |
| roshinigubba committed 3 days ago | | | | |
| adding network interface status | 7e9b66f | | <> | ... |
| roshinigubba committed 3 days ago | | | | |
| adding memory and disk usage | 54a8994 | | <> | ... |
| roshinigubba committed 3 days ago | | | | |
| adding cpu health check | a6c5f89 | | <> | ... |
| roshinigubba committed 3 days ago | | | | |

Creating the doc directory to push all the documents that contains all the steps performed in the project:

```
MINGW64~/c/Users/roshini.gubba/bash_project
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ mkdir docs
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ cd docs
```

Creating the file named collector_doc file inside the docs directory

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ cd docs
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/docs (main)
$ touch collector_doc
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/docs (main)
$ cd ..
```

Performing four steps, init, add, commit, push, to push the directory into the git:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git init
Reinitialized existing Git repository in C:/Users/roshini.gubba/bash_project/.git/
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding doc dir and file into it"
[main bbfb35f] adding doc dir and file into it
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 docs/collector_doc
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 383 bytes | 95.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/roshinigubba/bash_project.git
a3ee40c..bbfb35f main -> main
```

Editing the collector_file and write all steps we have done to complete this task and pushing that file into the git:

```
Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ cd docs/

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/docs (main)
$ ls
collector_doc

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/docs (main)
$ cat collector_doc

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/docs (main)
$ cp /c/Users/roshini.gubba/Downloads/collector_doc.pdf /c/Users/roshini.gubba/b
ash_project/docs

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project/docs (main)
$ cd ..

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git init
Reinitialized existing Git repository in C:/Users/roshini.gubba/bash_project/.gi
t/

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git add .

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git commit -m "adding folder and adding file into it"
[main b6ff23e] adding folder and adding file into it
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 docs/collector_doc.pdf

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 564.59 KiB | 5.18 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/roshinigubba/bash_project.git
bbfb35f..b6ff23e main -> main

Roshini.Gubba@ATMECSINLT-706 MINGW64 ~/bash_project (main)
$ |
```