## SD LAB

SUBMITTED BY,

**ATHIRA S** 

Roll No:03

**AJCE** 

S4 Regular MCA

## SD LAB

```
MINGW64:/c/Users/Home/Desktop/athii
 Home@Home-PC MINGW64 ~/Desktop/athii
$ git config --global user.name "Athira S"
Home@Home-PC MINGW64 ~/Desktop/athii
$ git config --global user.email "athiras2022@mca.ajce.in"
Home@Home-PC MINGW64 ~/Desktop/athii
$ git init
Initialized empty Git repository in C:/Users/Home/Desktop/athii/.git/
Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
dome@Home-PC MINGW64 ~/Desktop/athii (master)
$ git add file1.txt
 Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
lome@Home-PC MINGW64 ~/Desktop/athii (master)
$ git add file2.txt
```

```
MINGW64:/c/Users/Home/Desktop/athii
Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git add file2.txt
Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file: file1.txt
       new file: file2.txt
Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git commit -m "first commit"
[master (root-commit) 16546a5] first commit
2 files changed, 2 insertions(+)
create mode 100644 file1.txt
create mode 100644 file2.txt
Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git log
  mmit 16546a5c791b07303aad91ecf581945622605dec (HEAD -> master)
Author: Athira S <athiras2022@mca.ajce.in>
Date:
       Sun Jul 18 22:44:51 2021 +0530
    first commit
```

```
Home@Home-PC MINGW64 ~/Desktop/athii (master)
$ git checkout 16546a5c791b07303aad91ecf581945622605dec
Note: switching to '16546a5c791b07303aad91ecf581945622605dec'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -c with the switch command. Example:

git switch -c <new-branch-name>

Or undo this operation with:

git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 16546a5 first commit

Home@Home-PC MINGW64 ~/Desktop/athii ((16546a5...))
$ |
```

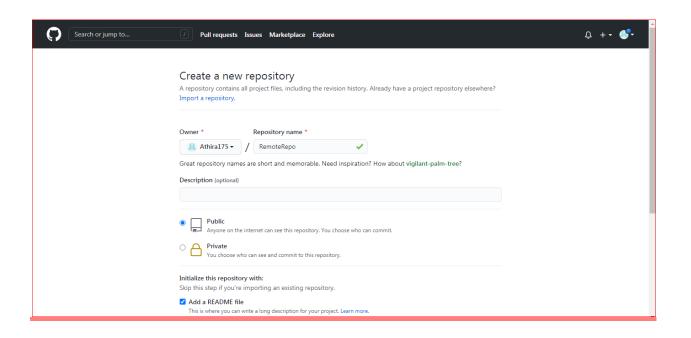
```
MINGW64:/c/Users/Home/Desktop/athi
 ome@Home-PC MINGW64 ~/Desktop/athi ((9a1d1e7...))
$ git log
 ommit 9a1d1e7093a50dfa94ab591ecfba18cf79243c43 (HEAD)
Author: ATHIRA S <athiras@gmail.cpm>
Date: Wed Jun 23 15:48:51 2021 +0530
    First commit
 ome@Home-PC MINGW64 ~/Desktop/athi ((9a1d1e7...))
$ git log --all
commit 8a804084434f339d9d31f7a4a3a72aa81139fa90 (master)
Author: ATHIRA S <athiras@gmail.cpm>
Date: Wed Jun 23 15:50:39 2021 +0530
    Second commit
 ommit 9a1d1e7093a50dfa94ab591ecfba18cf79243c43 (HEAD)
Author: ATHIRA S <athiras@gmail.cpm>
Date: Wed Jun 23 15:48:51 2021 +0530
    First commit
 fome@Home=PC MINGW64 ~/Desktop/athi ((9a1d1e7...))
git checkout 8a804084434f339d9d31f7a4a3a72aa81139fa90 (master)
bash: syntax error near unexpected token `('
Home@Home-PC MINGW64 ~/Desktop/athi ((9a1d1e7...))
$ git checkout 8a804084434f339d9d31f7a4a3a72aa81139fa90
Previous HEAD position was 9ald1e7 First commit
HEAD is now at 8a80408 Second commit
 ome@Home-PC MINGW64 ~/Desktop/athi ((8a80408...))
$ git log
    it 8a804084434f339d9d31f7a4a3a72aa81139fa90 (HEAD, master)
Author: ATHIRA 5 <athiras@gmail.cpm>
Date: Wed Jun 23 15:50:39 2021 +0530
    Second commit
 ommit 9a1d1e7093a50dfa94ab591ecfba18cf79243c43
Author: ATHIRA S <athiras@gmail.cpm>
Date: Wed Jun 23 15:48:51 2021 +0530
    First commit
Home@Home-PC MINGW64 ~/Desktop/athi ((8a80408...))
$ git log --all --decorate --oneline --graph
      0408 (HEAD, master) Second commit
  9aldle7 First commit
```

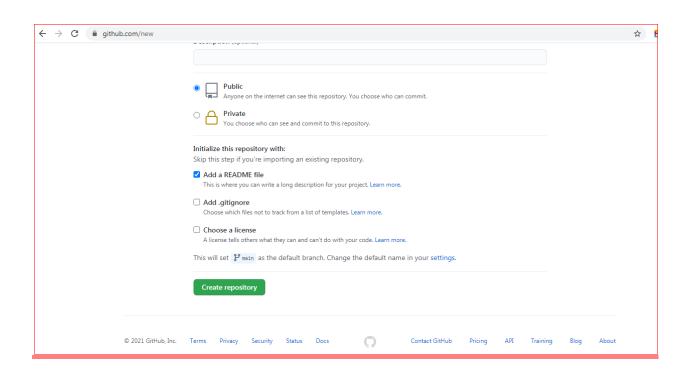
```
MINGW64:/c/Users/Home/Desktop/athi
 lome@Home-PC MINGW64 ~/Desktop/athi ((8a80408...))
$ git branch features
Home@Home-PC MINGW64 ~/Desktop/athi ((8a80408...))
$ git branch
  (HEAD detached at 8a80408)
 features
Home@Home-PC MINGW64 ~/Desktop/athi ((8a80408...))
$ git checkout features
Switched to branch 'features'
Home@Home-PC MINGW64 ~/Desktop/athi (features)
$ git branch auth
Home@Home-PC MINGW64 ~/Desktop/athi (features)
$ git checkout auth
Switched to branch 'auth'
Home@Home-PC MINGW64 ~/Desktop/athi (auth)
$ git log --all --decorate --oneline --graph
 8a80408 (HEAD -> auth, master, features) Second commit
 9aldle7 First commit
Home@Home-PC MINGW64 ~/Desktop/athi (auth)
$ git add .
Home@Home-PC MINGW64 ~/Desktop/athi (auth)
$ git status
On branch auth
Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
dome@Home-PC MINGW64 ~/Desktop/athi (auth)
$ git commit -m "third commit
[auth 3c10588] third commit
1 file changed, 1 insertion(+)
create mode 100644 file4.txt
Home@Home-PC MINGW64 ~/Desktop/athi (auth)
$ git log
commit 3c10588d68101a199cb554cccb368542c7847c64 (HEAD -> auth)
Author: ATHIRA S <athiras@gmail.cpm>
       Wed Jun 23 16:12:38 2021 +0530
Date:
   third commit
```

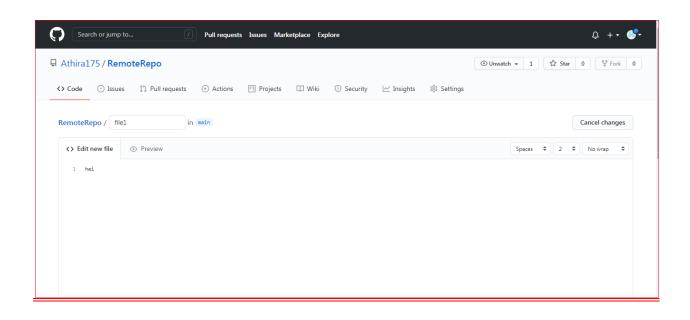
```
MINGW64:/c/Users/Home/Desktop/athi
    third commit
commit 8a804084434f339d9d31f7a4a3a72aa81139fa90 (master, features)
Author: ATHIRA S <athiras@gmail.cpm>
Date: Wed Jun 23 15:50:39 2021 +0530
    Second commit
commit 9a1d1e7093a50dfa94ab591ecfba18cf79243c43
Author: ATHIRA S <athiras@gmail.cpm>
Date: Wed Jun 23 15:48:51 2021 +0530
    First commit
Home@Home-PC MINGW64 ~/Desktop/athi (auth)
$ git checkout master
Switched to branch 'master'
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git merge auth
Updating 8a80408..3c10588
Fast-forward
file4.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 file4.txt
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git merge features
Already up to date.
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git log --all --decorate --oneline --graph
 3c10588 (HEAD -> master, auth) third commit
  8a80408 (features) Second commit
 9aldle7 First commit
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git branch -d auth
Deleted branch auth (was 3c10588).
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git log --all --decorate --oneline --graph
 3c10588 (HEAD -> master) third commit
8a80408 (features) Second commit
  9aldle7 First commit
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git branch -D features
Deleted branch features (was 8a80408).
```

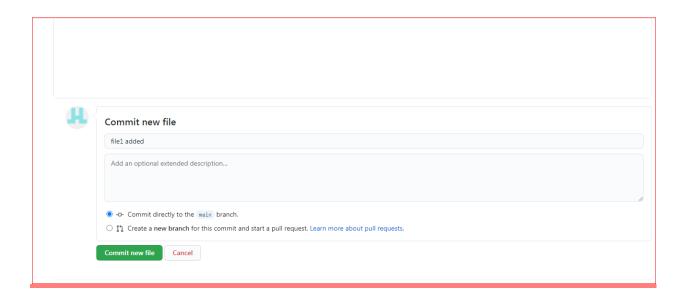
```
Home@Home-PC MINGW64 ~/Desktop/athi (master)
$ git log --all --decorate --oneline --graph
# 3c10588 (HEAD -> master) third commit
# 8a80408 Second commit
# 9aldle7 First commit

Home@Home-PC MINGW64 ~/Desktop/athi (master)
$
```





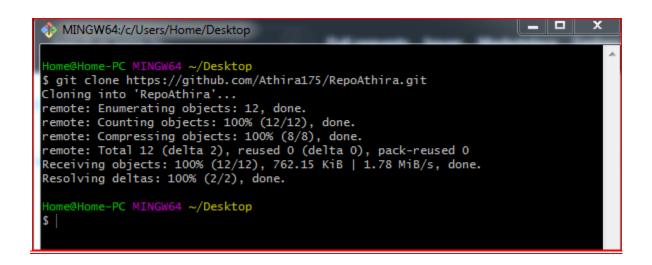




```
lome@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
Home@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git add .
 lome@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git commit -m "rose selected"
[main 2a49e99] rose selected
1 file changed, 1 insertion(+)
create mode 100644 rose.txt
 ome@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git log
commit 2a49e9959882c487a70e398599888b02c7e3a0c4 (HEAD -> main)
Author: ATHIRA S <athiras@gmail.cpm>
Date: Mon Jul 5 21:50:23 2021 +0530
    rose selected
commit f4b8a30276f272d7005cd87d887873860cbd3584 (origin/main, origin/HEAD)
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Mon Jul 5 21:27:35 2021 +0530
    Create file2
 commit 71027f42fa1697889f8c5ccc6c4fdb27da4c9636
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Mon Jul 5 21:12:42 2021 +0530
    Update file1
commit 9f2e1b6b30716f92eb3f9c29a7cc4840191e02ac
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Mon Jul 5 21:11:41 2021 +0530
    new image
....skipping...
   mit 2a49e9959882c487a70e398599888b02c7e3a0c4 (HEAD -> main)
Author: ATHIRA S <athiras@gmail.cpm>
Date: Mon Jul 5 21:50:23 2021 +0530
```

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Author: Activation Secretary (mission of the complex of the compl
```

```
MINGW64:/c/Users/Home/Desktop/New folder/RemoteRepo
    nit c0b18fdf4c9dc585dbe8791242bf24be6fb3fa61
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
       Mon Jul 5 20:22:23 2021 +0530
Date:
    Initial commit
dome@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git remote add orgin https://github.com/Athira175/RemoteRepo.git
Home@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git push orgin main
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Athira175/RemoteRepo.git/'
Home@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git push orgin main
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Athira175/RemoteRepo.git/'
Home@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
$ git push orgin main
To https://github.com/Athira175/RemoteRepo.git
                       main -> main (fetch first)
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes hint: (e.g., 'git pull ...') before pushing again. hint: See the 'Note about fast-forwards' in 'git push --help' for details.
 lome@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
 ome@Home-PC MINGW64 ~/Desktop/New folder/RemoteRepo (main)
```



```
MINGW64:/c/Users/Home/Desktop/RepoAthira
      Wed Jul 7 11:31:58 2021 +0530
   file12 is added
commit 33f53a08d0e657b83e3a8fa52690f63489c98a42 (origin/main, origin/HEAD)
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Wed Jul 7 11:25:16 2021 +0530
   upload image
commit 2394011a05bc0239370c98f82051785bbafc3bc6
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date:
       Wed Jul 7 11:24:28 2021 +0530
   create file11
commit 3cf7c6be3adba3a6317dce92198474cdeed5bc05
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Wed Jul 7 11:23:50 2021 +0530
   create file10
commit b9c304f0df0a02108cb87a24f2b75305939e7a59
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Wed Jul 7 11:22:10 2021 +0530
   Initial commit
```

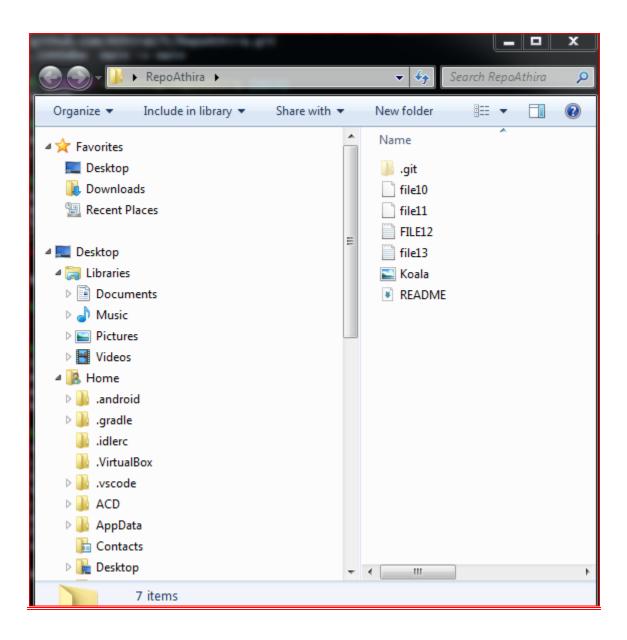
```
MINGW64:/c/Users/Home/Desktop/RepoAthira
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git config --global user.name "[Athira]"
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git config --global user.email "[athiras@gmail.com]"
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git add .
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git commit -m "file12 is added"
[main 1440dbe] file12 is added
1 file changed, 1 insertion(+)
create mode 100644 FILE12.txt
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git log
   mit 1440dbe21d510474bc00d819652d2107a3dd29c0 (HEAD -> main)
Author: [Athira] <[athiras@gmail.com]>
       Wed Jul 7 11:31:58 2021 +0530
    file12 is added
commit 33f53a08d0e657b83e3a8fa52690f63489c98a42 (origin/main, origin/HEAD)
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date:
       Wed Jul 7 11:25:16 2021 +0530
    upload image
commit 2394011a05bc0239370c98f82051785bbafc3bc6
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date:
       Wed Jul 7 11:24:28 2021 +0530
```

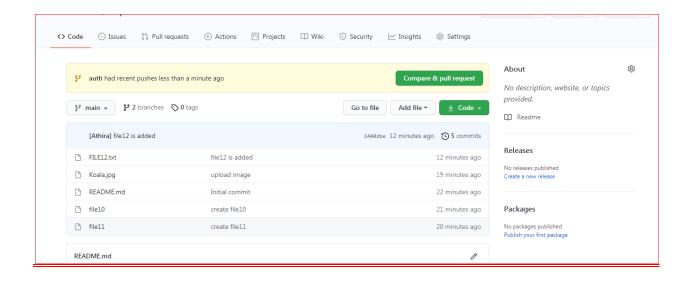
create file11

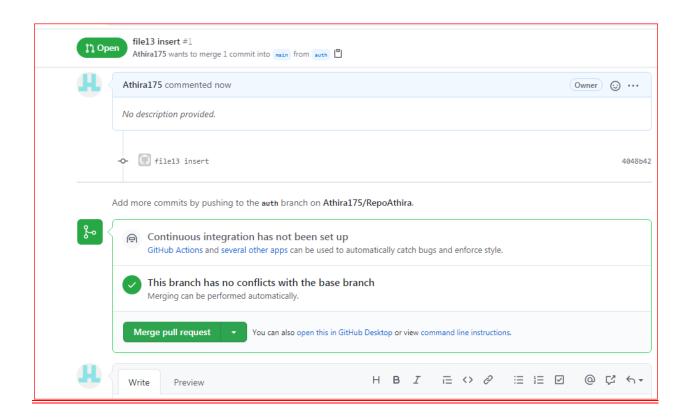
```
MINGW64:/c/Users/Home/Desktop/RepoAthira
       Wed Jul 7 11:24:28 2021 +0530
    create file11
commit 3cf7c6be3adba3a6317dce92198474cdeed5bc05
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
       Wed Jul 7 11:23:50 2021 +0530
    create file10
:...skipping...
commit 1440dbe21d510474bc00d819652d2107a3dd29c0 (HEAD -> main)
Author: [Athira] <[athiras@gmail.com]>
Date: Wed Jul 7 11:31:58 2021 +0530
    file12 is added
commit 33f53a08d0e657b83e3a8fa52690f63489c98a42 (origin/main, origin/HEAD)
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date:
       Wed Jul 7 11:25:16 2021 +0530
    upload image
commit 2394011a05bc0239370c98f82051785bbafc3bc6
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
       Wed Jul 7 11:24:28 2021 +0530
Date:
    create file11
commit 3cf7c6be3adba3a6317dce92198474cdeed5bc05
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date: Wed Jul 7 11:23:50 2021 +0530
    create file10
commit b9c304f0df0a02108cb87a24f2b75305939e7a59
Author: Athira175 <75133643+Athira175@users.noreply.github.com>
Date:
       Wed Jul 7 11:22:10 2021 +0530
    Initial commit
```

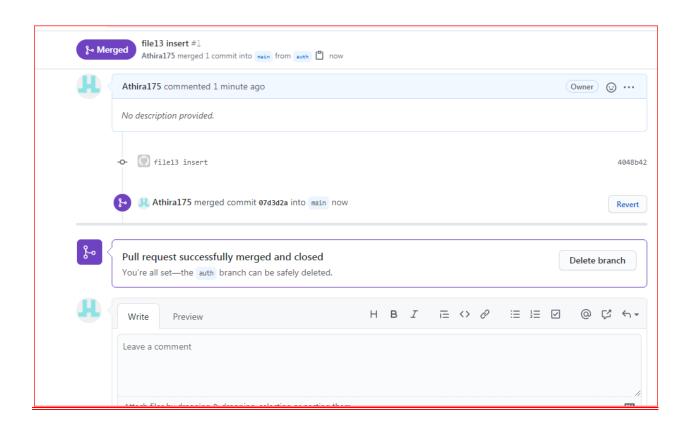
```
MINGW64:/c/Users/Home/Desktop/RepoAthira
 Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git remote add athi https://github.com/Athira175/RepoAthira.git
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git push athi main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 276 bytes | 276.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
 remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Athira175/RepoAthira.git
   33f53a0..1440dbe main -> main
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git branch auth
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (main)
$ git checkout auth
Switched to branch 'auth'
 Home@Home-PC MINGW64 ~/Desktop/RepoAthira (auth)
$ git status
On branch auth
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (auth)
$ git add .
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (auth)
$ git commit -m "file13 insert"
[auth 4048b42] file13 insert
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file13.txt
```

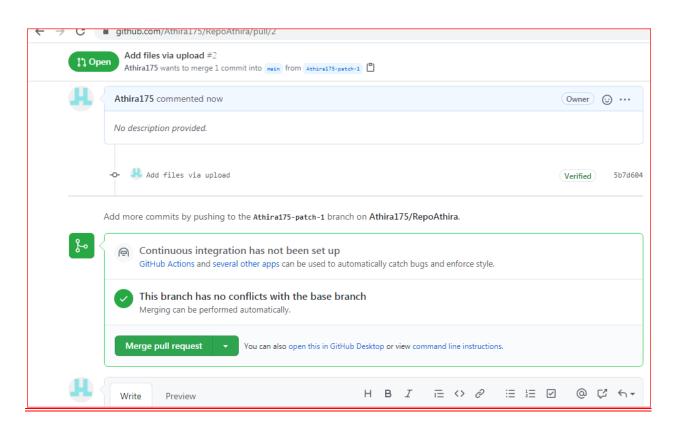
```
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (auth)
$ git push athi auth
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 273 bytes | 136.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'auth' on GitHub by visiting:
remote:
            https://github.com/Athira175/RepoAthira/pull/new/auth
remote:
To https://github.com/Athira175/RepoAthira.git
 # [new branch]
                    auth -> auth
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (auth)
```











```
Home@Home-PC MINGW64 ~/Desktop/RepoAthira (auth)
$ git pull athi main
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 28.49 KiB | 129.00 KiB/s, done.
From https://github.com/Athira175/RepoAthira
* branch
                       main
                                   -> FETCH_HEAD
   1440dbe..bfacb51 main
                                   -> athi/main
Updating 4048b42..bfacb51
ast-forward
 vermicomposting-of-wood-wastes-ppt-6-638.jpg | Bin 0 -> 27447 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 vermicomposting-of-wood-wastes-ppt-6-638.jpg
```

```
MINGW64:/c/Users/Home/Desktop/at
 ome@Home-PC MINGW64 ~/Desktop/at
$ git config --global user.name "[Athira]"
 lome@Home-PC MINGW64 ~/Desktop/at
$ git config --global user.email "[athira@gmail.com]"
 lome@Home-PC MINGW64 ~/Desktop/at
$ git init
Initialized empty Git repository in C:/Users/Home/Desktop/at/.git/
 lome@Home-PC MINGW64 ~/Desktop/at (master)
$ git status
On branch master
No commits yet
Untracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
 ome@Home-PC MINGW64 ~/Desktop/at (master)
git add .
 lome@Home-PC MINGW64 ~/Desktop/at (master)
git commit -m "commited
master (root-commit) cd88455] committed
1 file changed, 8 insertions(+)
 create mode 100644 kk.txt
 ome@Home-PC MINGW64 ~/Desktop/at (master)
$ git log
commit cd884555a453f617cbc878fbab56c1431dac7d25 (HEAD -> master)
Author: [Athira] <[athira@gmail.com]>
Date: Sun Jul 18 22:08:21 2021 +0530
    commited
 ome@Home-PC MINGW64 ~/Desktop/at (master)
```

## kk - Notepad

int add (int , int b)
int substract (int a, int b)
int multiply (int a, int b)
int divide (int a, int b)

## kk - Notepad

int add (int , int b)
return (a+b)
int substract (int a, int b)
int multiply (int a, int b)
int divide (int a, int b)

File Edit Format View Help

```
MINGW64:/c/Users/Home/Desktop/at

Home@Home-PC MINGW64 ~/Desktop/at (master)

S git stash
Saved working directory and index state WIP on master: cd88455 commited

Home@Home-PC MINGW64 ~/Desktop/at (master)

S git stash pop
On branch 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: kk.txt

no changes added to commit (use "git add" and/or "git commit -a")
Oropped refs/stash@{0} (ef9e11d9b229a15557e344fc4537c08ecac20cf9)

Home@Home-PC MINGW64 ~/Desktop/at (master)

S |
```