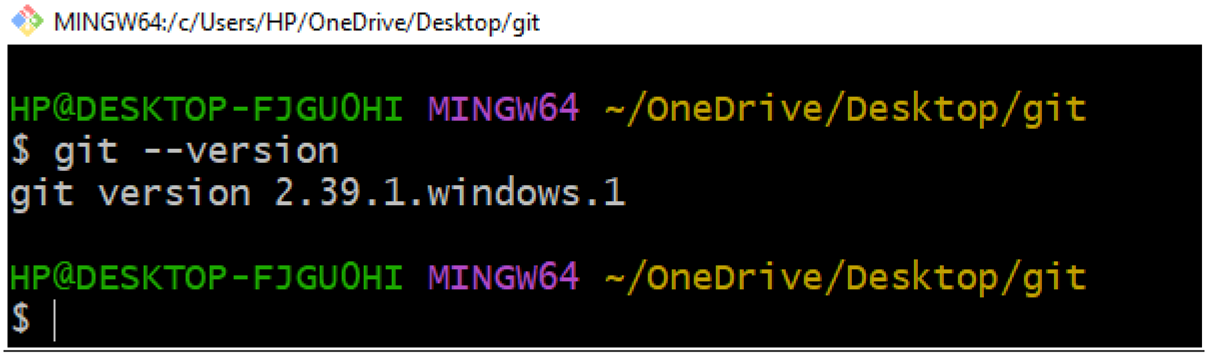
NAME=ADITYA ANAL

PROFILE=DATA ENGINNER

GIT Commands Tutorials

Git: There are many different ways to use Git. Git supports many command-line tools and graphical user interfaces. The Git command line is the only place where you can run all the Git commands.

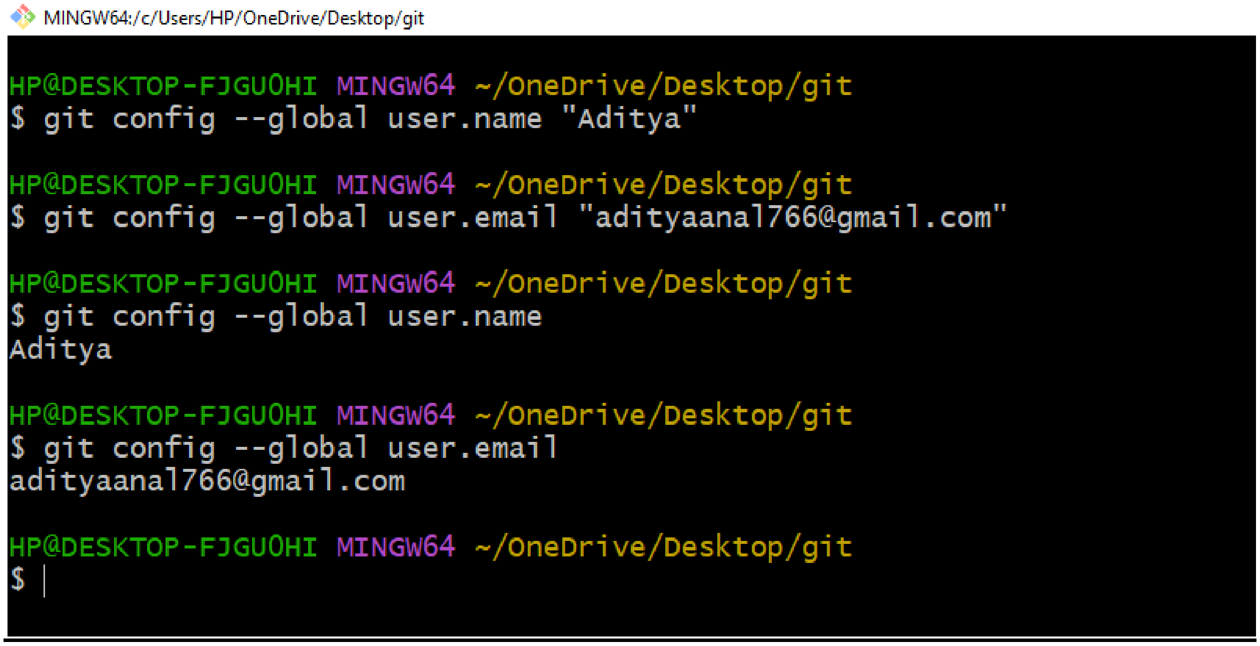
1.git version: When you run this command it will display your current Git version.



MINGW64:/c/Users/HP/OneDrive/Desktop/git

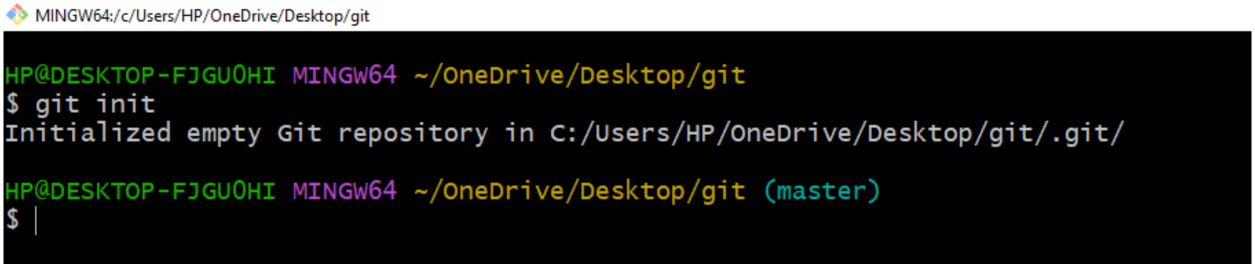
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git
$ git --version
git version 2.39.1.windows.1

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git
$ |
```

2.Git config command: This command configures the user. The Git config command is the first and necessary command used on the Git command line. This command sets the author name and email address to be used with your commits. Git config is also used in other scenarios.



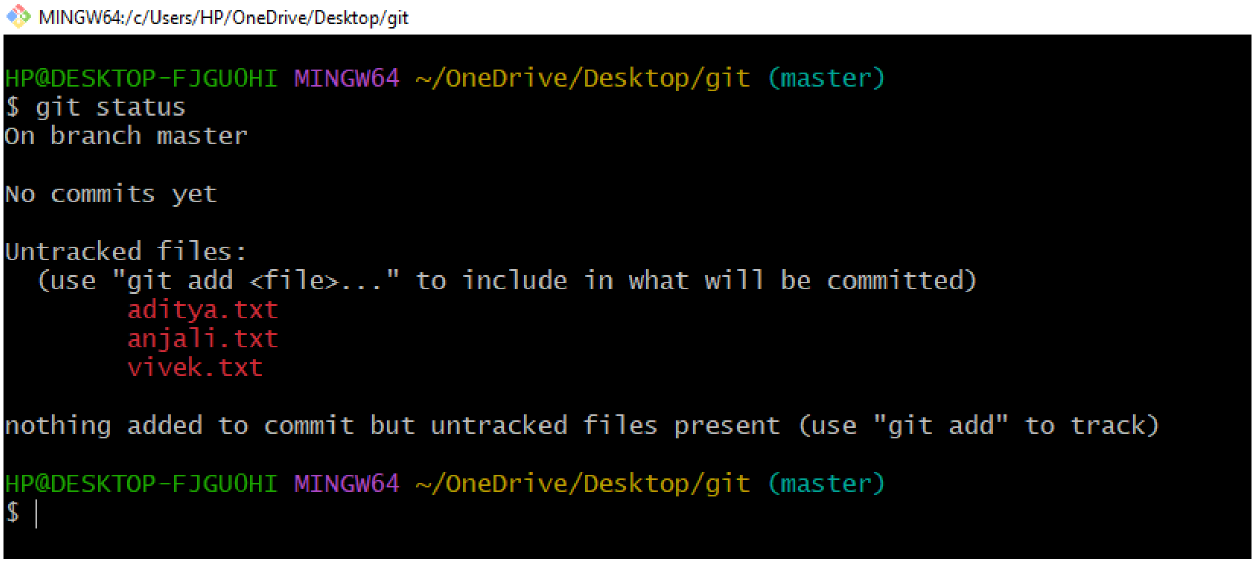
```
HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git
$ git config --global user.name "Aditya"

HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git
$ git config --global user.email "adityaanal766@gmail.com"

HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git
$ git config --global user.name
Aditya

HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git
$ git config --global user.email
adityaanal766@gmail.com

HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git
$ |
```

3.Git Init command: This command is used to create a local repository.



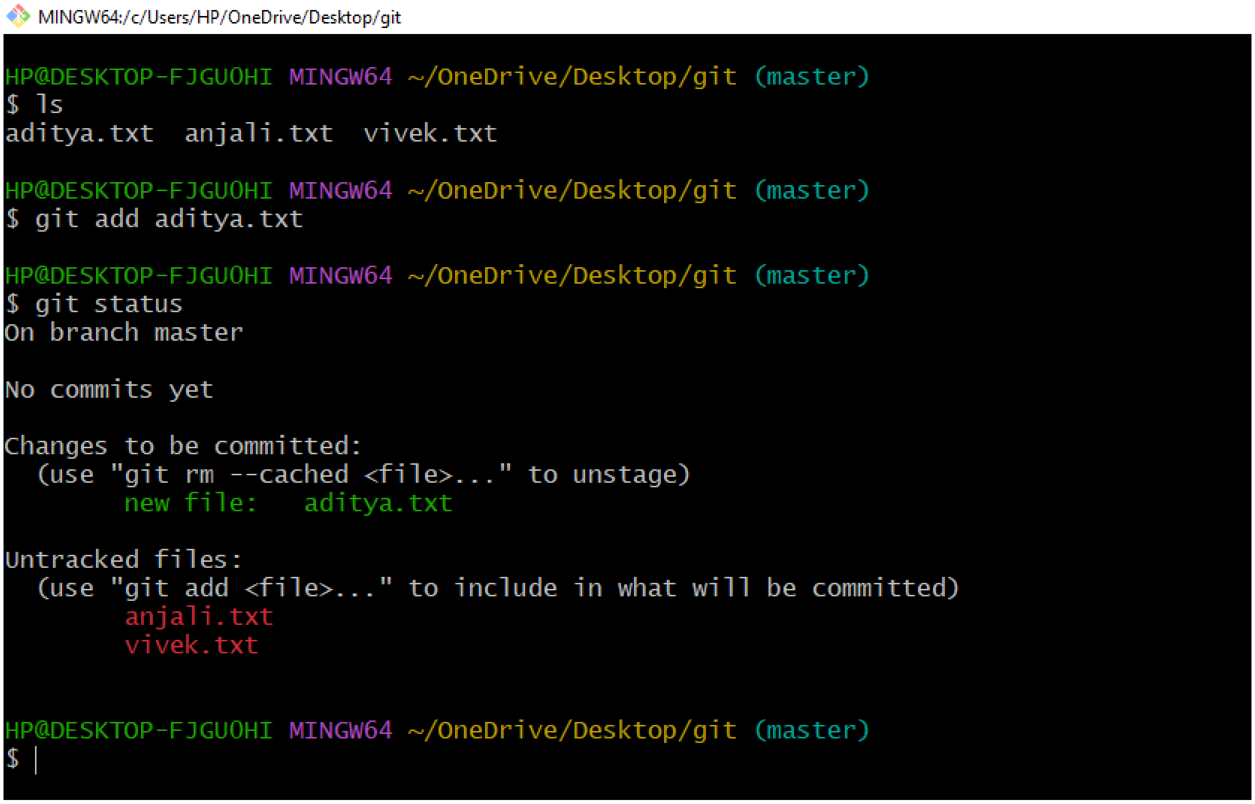
```
HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git
$ git init
Initialized empty Git repository in C:/Users/HP/OneDrive/Desktop/git/.git/

HP@DESKTOP-FJGU0HI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

4.Git Status command: to give the currents status of file.



```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master

No commits yet

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

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

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

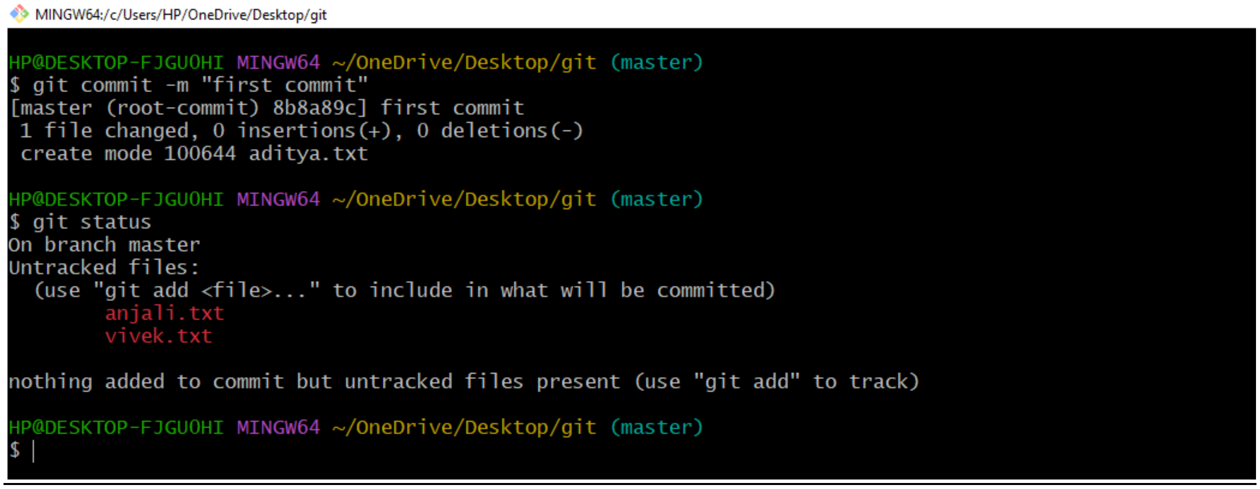
4.Git add command: This command is used to add one or more files to staging (Index) area.



```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ ls
aditya.txt  anjali.txt  vivek.txt

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git add aditya.txt

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   aditya.txt

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


HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

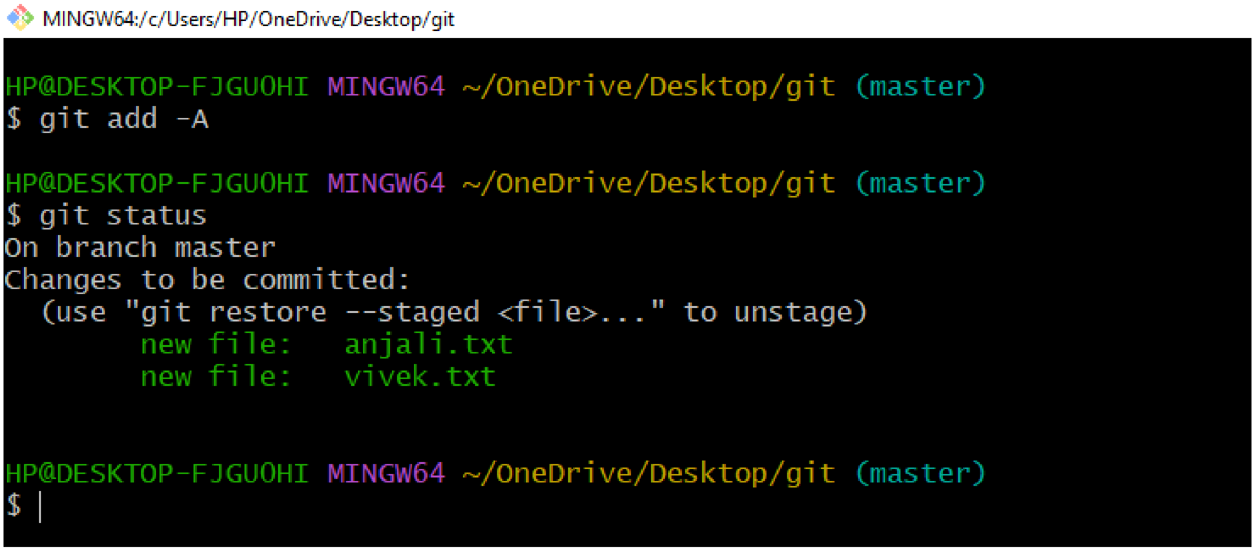
5.Git commit command: Commit command is used in two scenarios. They are as follows. **Git commit –m:** This command changes the head. It records or snapshots the file permanently in the version history with a message.

Git commit –a: This command commits any files added in the repository with git add and also commits any files you've changed since then.



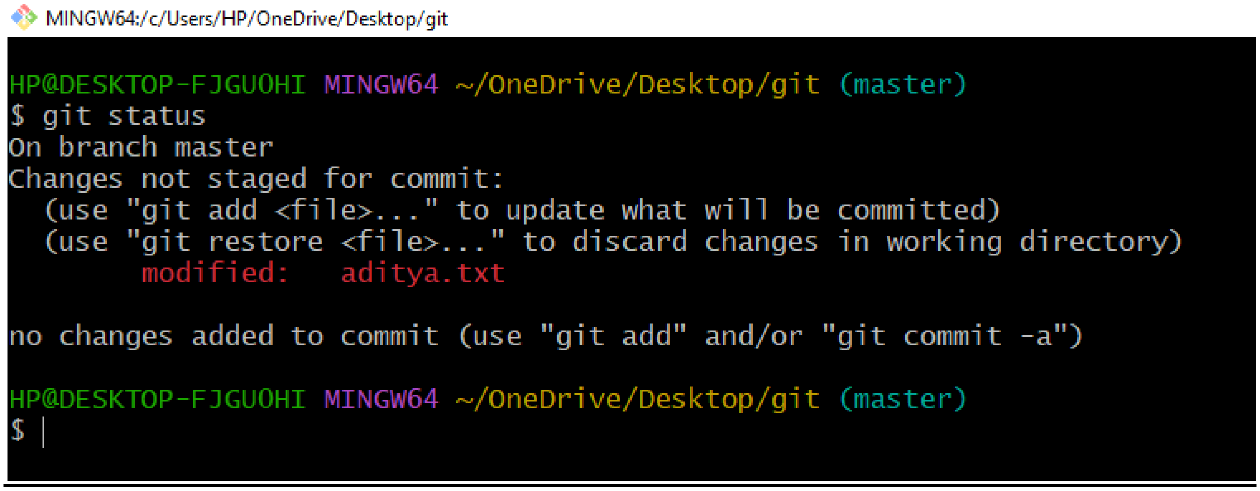
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git commit -m "first commit"
[master (root-commit) 8b8a89c] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 aditya.txt

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        anjali.txt
        vivek.txt

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

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

6.Git All command: to select all file and add .



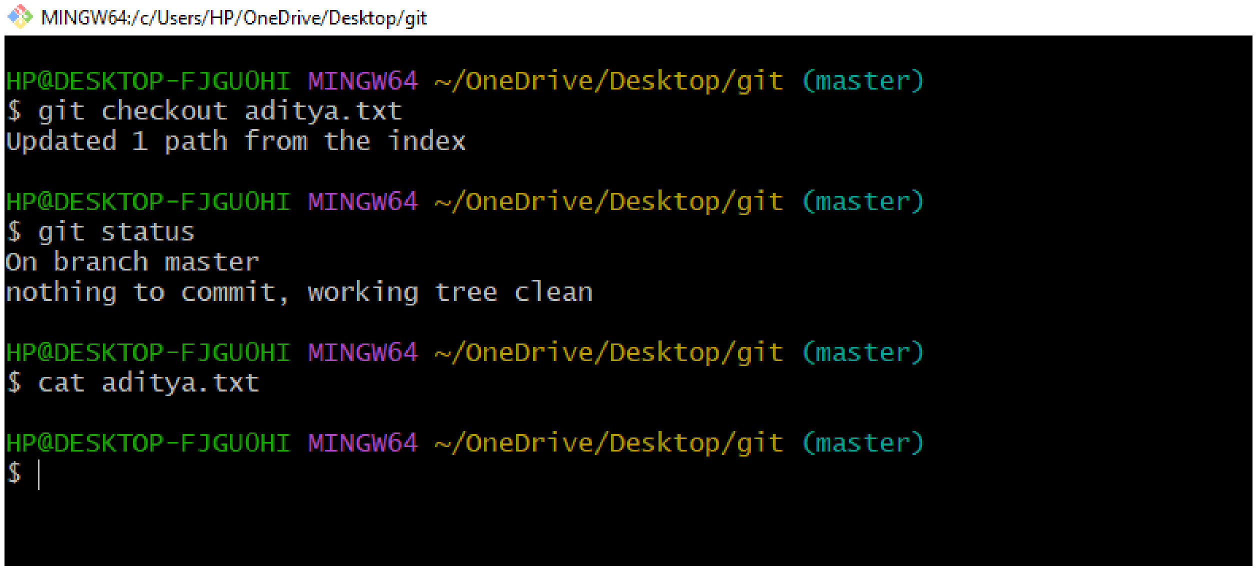
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git add -A

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   anjali.txt
        new file:   vivek.txt


HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

7.For modified show



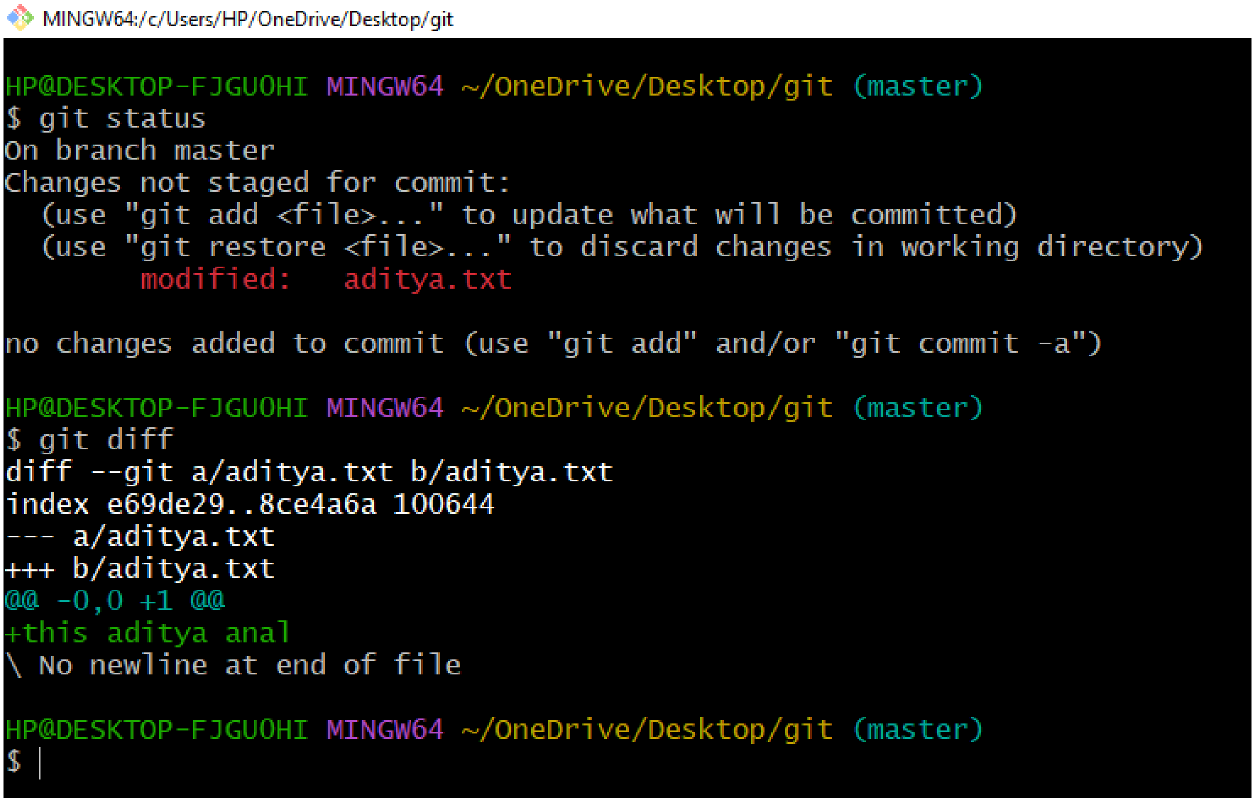
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   aditya.txt

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

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

8.Checkout : to modified the change.



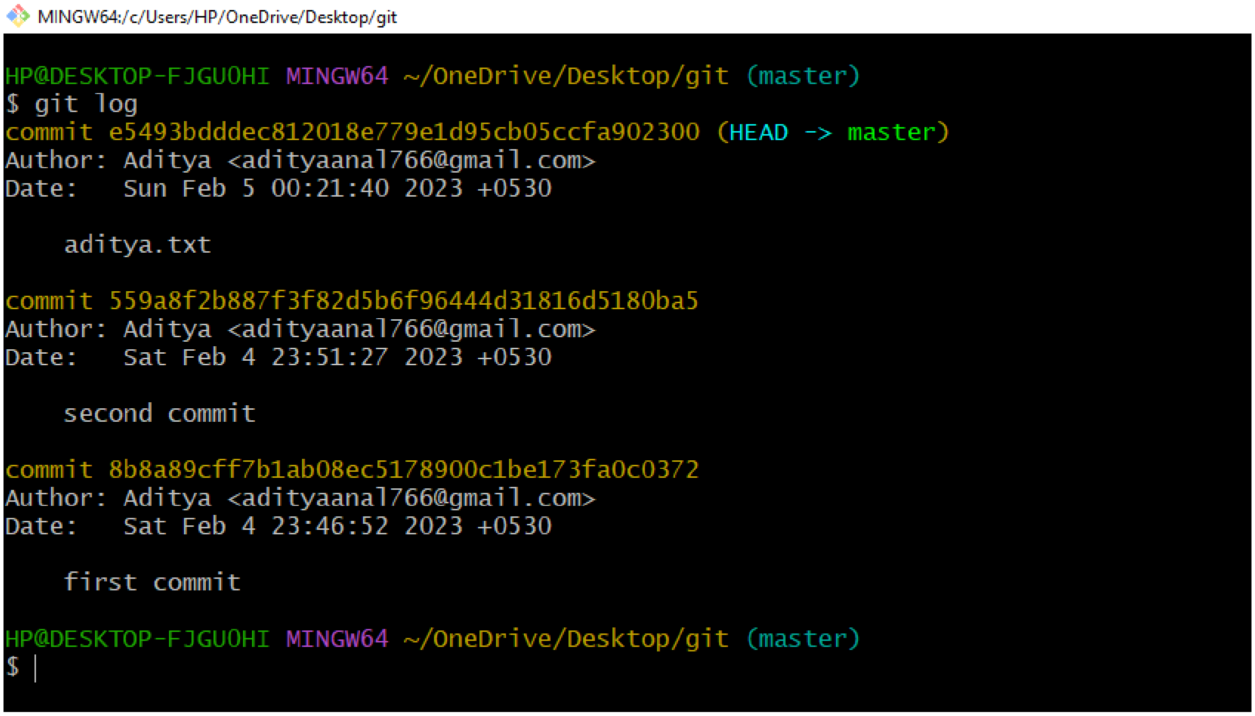
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git checkout aditya.txt
Updated 1 path from the index

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master
nothing to commit, working tree clean

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ cat aditya.txt

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

9.Git diff: to see the change menas compare to file files after modified the file.



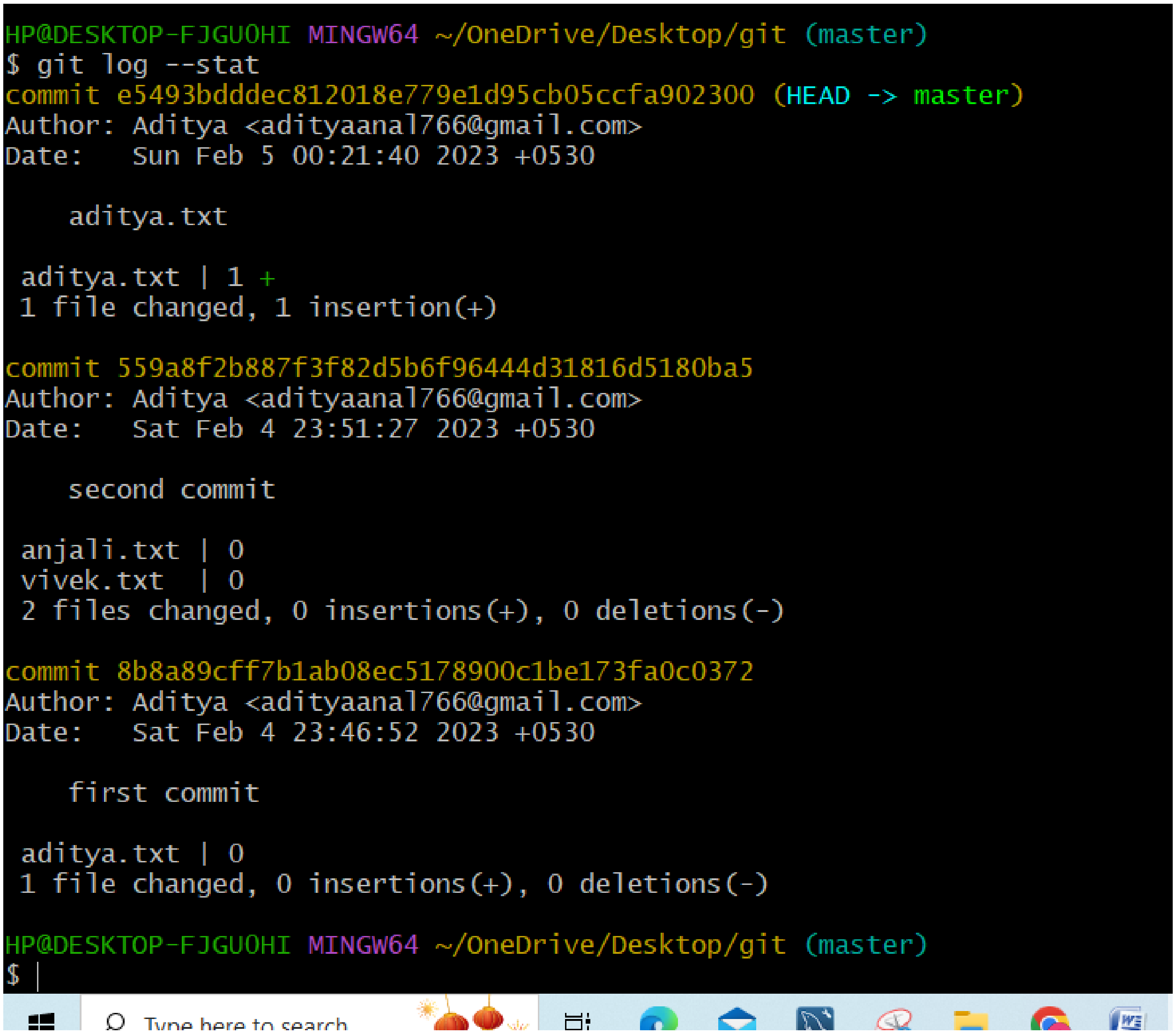
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   aditya.txt

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

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git diff
diff --git a/aditya.txt b/aditya.txt
index e69de29..8ce4a6a 100644
--- a/aditya.txt
+++ b/aditya.txt
@@ -0,0 +1 @@
+this aditya anal
\ No newline at end of file

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

10.Git log: This command is used to check the commit history.



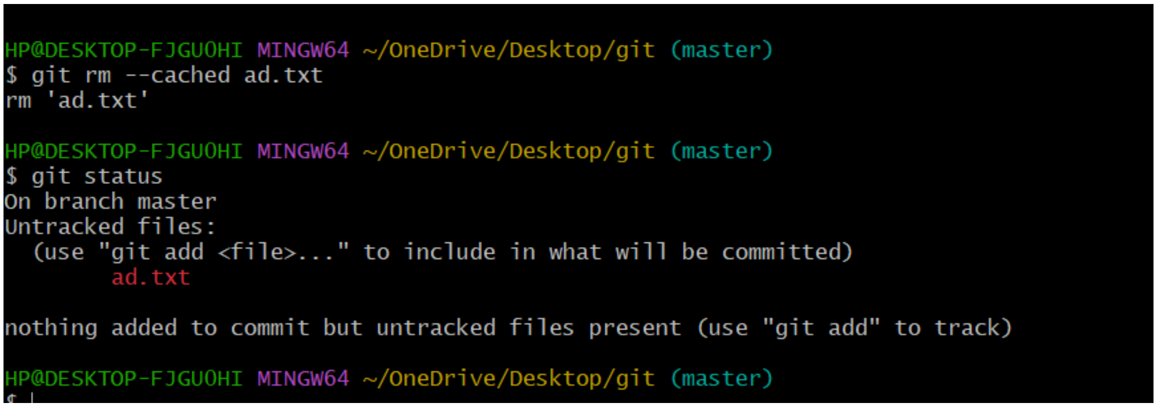
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git log
commit e5493bdddec812018e779e1d95cb05ccfa902300 (HEAD -> master)
Author: Aditya <adityaanal766@gmail.com>
Date:   Sun Feb 5 00:21:40 2023 +0530

    aditya.txt

commit 559a8f2b887f3f82d5b6f96444d31816d5180ba5
Author: Aditya <adityaanal766@gmail.com>
Date:   Sat Feb 4 23:51:27 2023 +0530

    second commit

commit 8b8a89cff7b1ab08ec5178900c1be173fa0c0372
Author: Aditya <adityaanal766@gmail.com>
Date:   Sat Feb 4 23:46:52 2023 +0530

    first commit

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

<u>11.Git log – stat:</u> to check the all modified file history withn time and date.



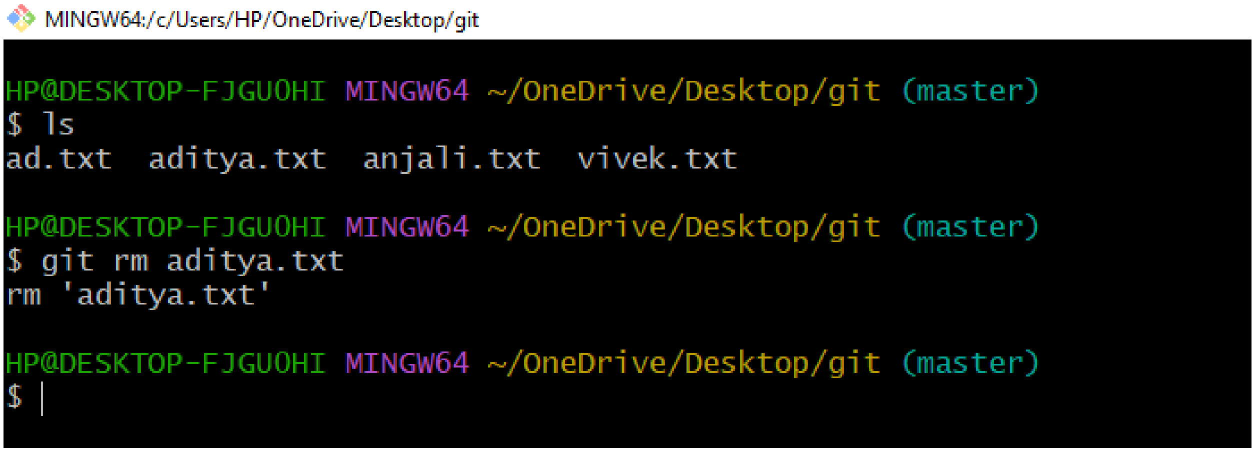
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git log --stat
commit e5493bdddec812018e779e1d95cb05ccfa902300 (HEAD -> master)
Author: Aditya <adityaanal766@gmail.com>
Date:   Sun Feb 5 00:21:40 2023 +0530

    aditya.txt

 aditya.txt | 1 +
 1 file changed, 1 insertion(+)

commit 559a8f2b887f3f82d5b6f96444d31816d5180ba5
Author: Aditya <adityaanal766@gmail.com>
Date:   Sat Feb 4 23:51:27 2023 +0530

    second commit

 anjali.txt | 0
 vivek.txt  | 0
 2 files changed, 0 insertions(+), 0 deletions(-)

commit 8b8a89cff7b1ab08ec5178900c1be173fa0c0372
Author: Aditya <adityaanal766@gmail.com>
Date:   Sat Feb 4 23:46:52 2023 +0530

    first commit

 aditya.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

<u>12.Git rm –cached file.txt:</u>to remove the file in staged area.



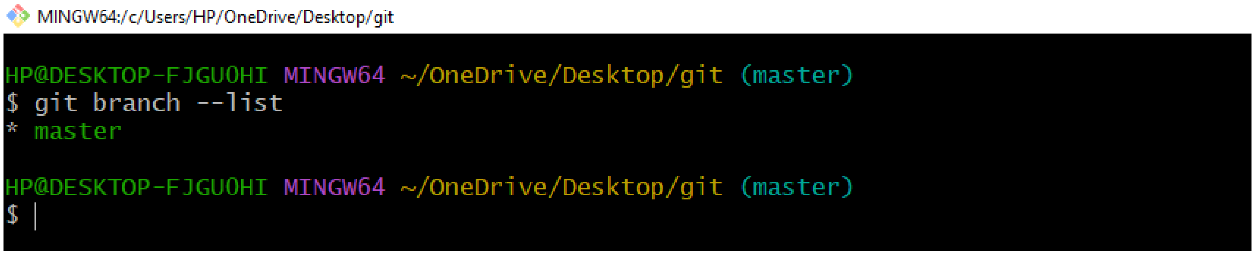
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git rm --cached ad.txt
rm 'ad.txt'

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        ad.txt

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

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$
```

13.Git rm –f file.txt:remove the file means delete the file parment.



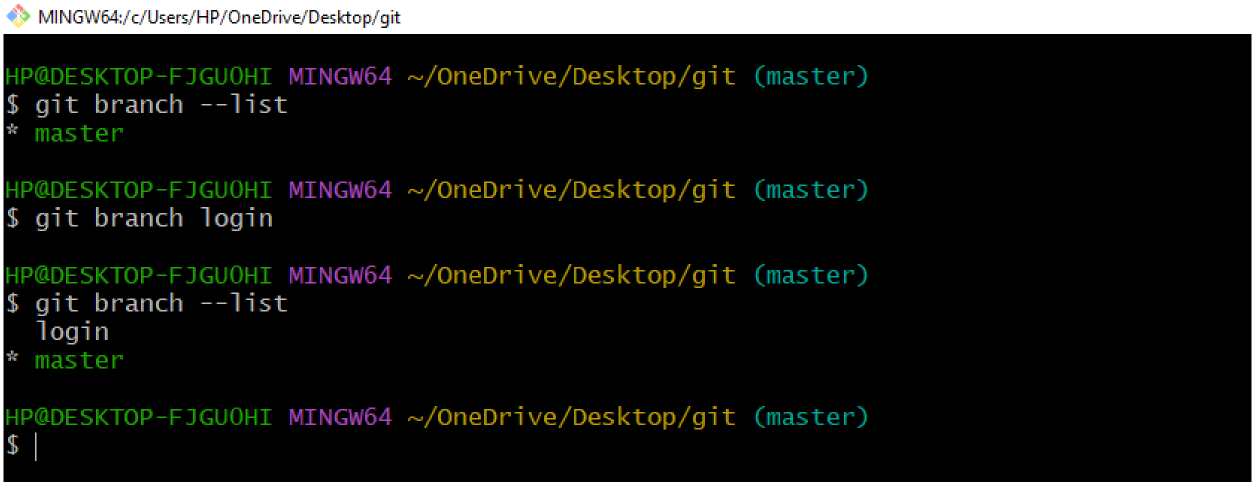
```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ ls
ad.txt  aditya.txt  anjali.txt  vivek.txt

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git rm aditya.txt
rm 'aditya.txt'

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

14.git branch –list: to give list of branch .



```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git branch --list
* master

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

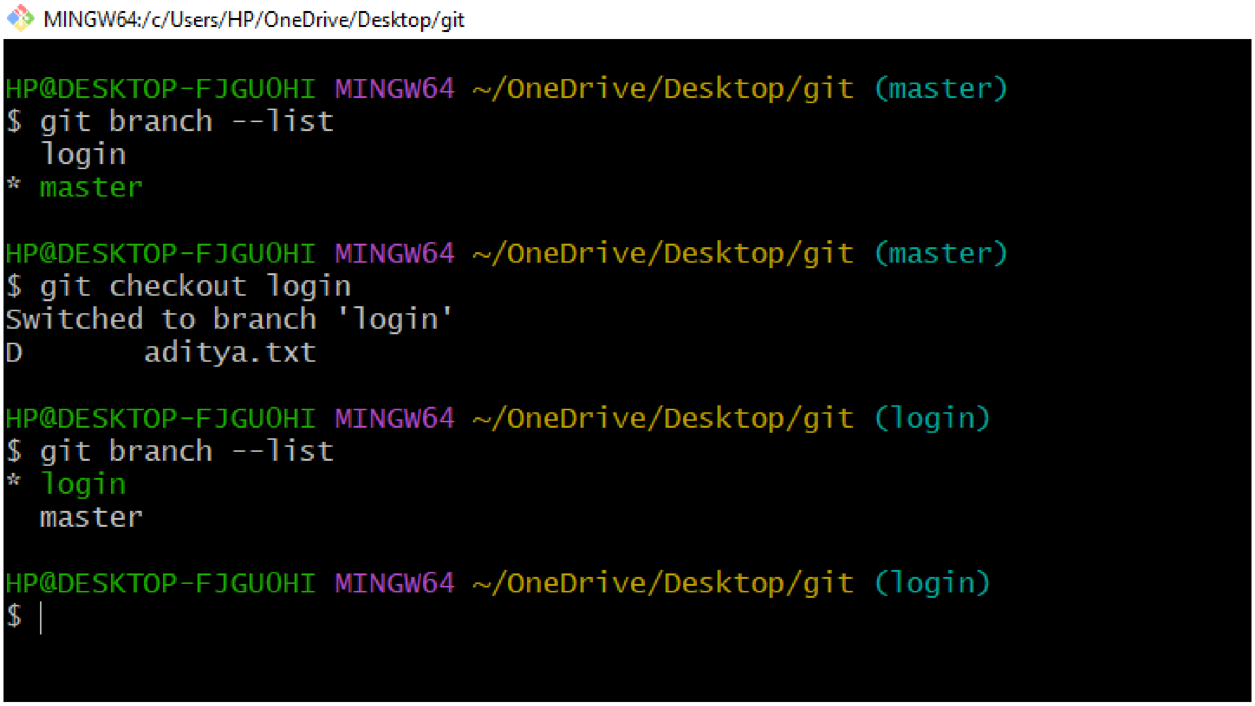
15. git branch (name): to create the new branch .



MINGW64:/c/Users/HP/OneDrive/Desktop/git

```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git branch --list
* master

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git branch login

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git branch --list
  login
* master

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

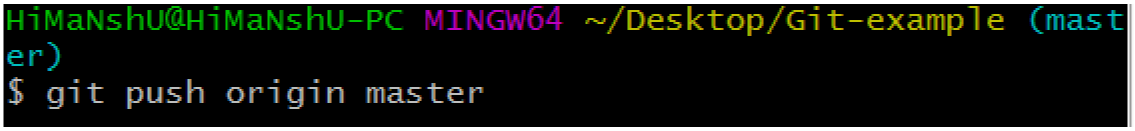
16.git checkout : to change the branch(master to login).



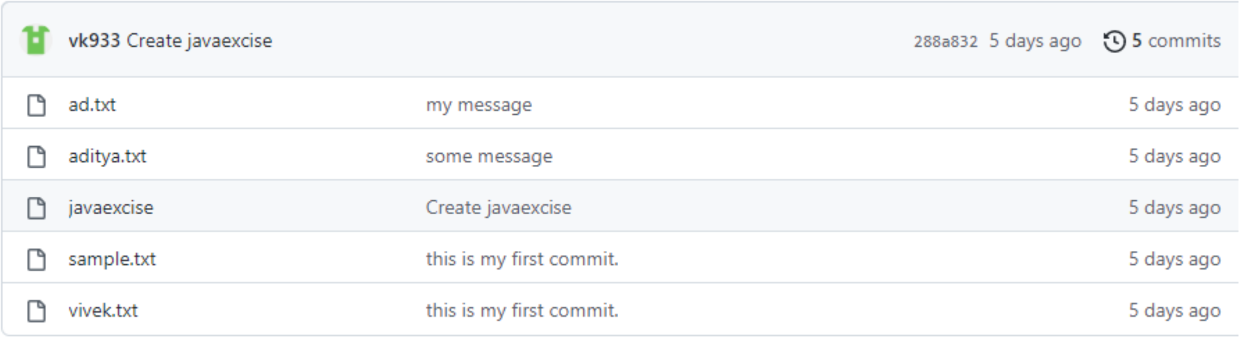
MINGW64:/c/Users/HP/OneDrive/Desktop/git

```
HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git branch --list
  login
* master

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (master)
$ git checkout login
Switched to branch 'login'
D       aditya.txt

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (login)
$ git branch --list
* login
  master

HP@DESKTOP-FJGUOHI MINGW64 ~/OneDrive/Desktop/git (login)
$ |
```

17.Git push Command: It is used to upload local repository content to a remote repository. Pushing is an act of transfer commits from your local repository to a remote repo.

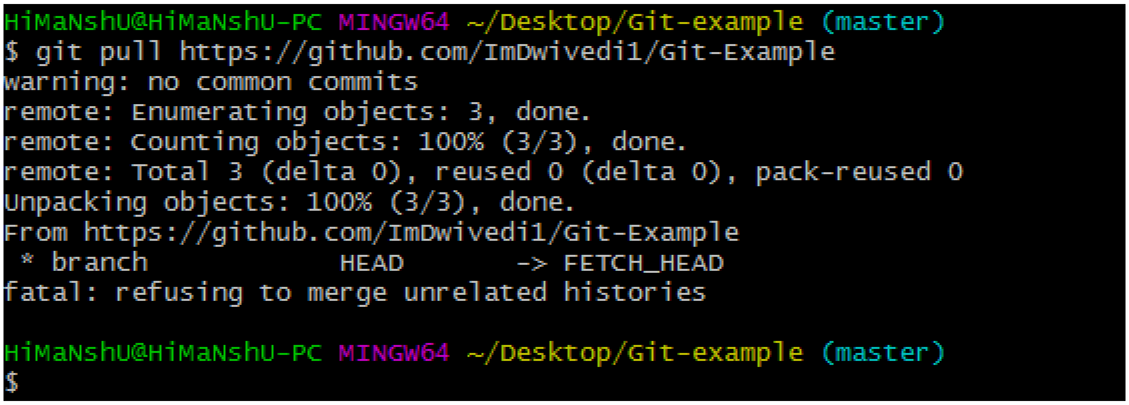


```
HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop/Git-example (mast
er)
$ git push origin master
```



vk933 Create javaexcise		288a832 5 days ago 5 commits
ad.txt	my message	5 days ago
aditya.txt	some message	5 days ago
javaexcise	Create javaexcise	5 days ago
sample.txt	this is my first commit.	5 days ago
vivek.txt	this is my first commit.	5 days ago

18) Git pull command: Pull command is used to receive data from GitHub. It fetches and merges changes on the remote server to your working directory.



```
HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop/Git-example (master)
$ git pull https://github.com/ImDwivedi1/Git-Example
warning: no common commits
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/ImDwivedi1/Git-Example
 * branch            HEAD       -> FETCH_HEAD
fatal: refusing to merge unrelated histories

HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop/Git-example (master)
$
```