

GIT practice

GIT workflow:



) To create a local repo using a initialize command init in git:

File Home Share View

< > ^ ↑ > This PC > Local Disk (E:) > gitprac

Name	Date modified	Type	Size
.git	07-08-2023 11:30	File folder	

Quick access

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- Local Disk (G:)
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1 item 1 item selected

```
MINGW64/E/gitprac
$ cd ..

ADMIN@DESKTOP-T9CDK8H MINGW
$ cd E

ADMIN@DESKTOP-T9CDK8H MINGW
$ cd gitprac
bash: cd: gitprac: No such

ADMIN@DESKTOP-T9CDK8H MINGW
$ mkdir gitprac

ADMIN@DESKTOP-T9CDK8H MINGW
$ cd gitprac/

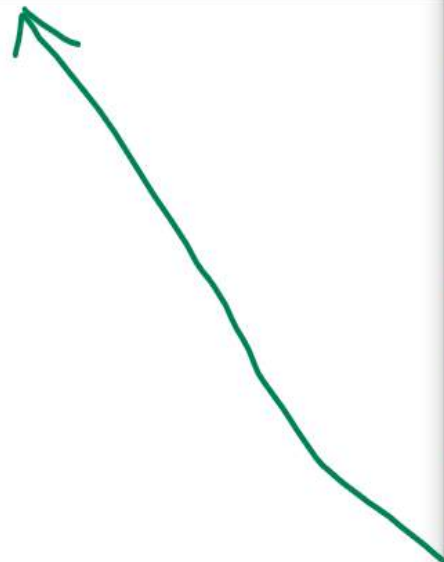
ADMIN@DESKTOP-T9CDK8H MINGW
$ start .

ADMIN@DESKTOP-T9CDK8H MINGW
$ git init
Initialized empty Git repos

ADMIN@DESKTOP-T9CDK8H MINGW
$ start .

ADMIN@DESKTOP-T9CDK8H MINGW
$ start .

ADMIN@DESKTOP-T9CDK8H MINGW
$ |
```



) current changes

- For the changes to be versioned we need to have the changes in local repo.
 - We work on working tree
 - move the changes to staging area
 - move the changes from staging area to local repo
 - once the changes are in local repo we have some version, who has done the change, when the change was done, changes

) create an src folder and create a file main.py and ask for status

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ mkdir src

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ touch src/main.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ gFor the changes to be versioned we need to have the changes in local repo.
We work on working tree
move the changes to staging area
move the changes from staging area to local repo
once the changes are in local repo we have some version, who has done the cha
bash: gFor: command not found
bash: We: command not found
bash: move: command not found
bash: move: command not found
bash: once: command not found

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master

No commits yet

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

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

Present there is untracked files are present

```
MINGW64:/E/gitprac
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git add src/

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   src/main.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git commit -m "this is first commit"
[master (root-commit) 06ece92] this is first commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 src/main.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
nothing to commit, working tree clean

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git log
commit 06ece927e49f8923a235747f8bafb9ef84907655 (HEAD -> master)
Author: sujeeth <rsk1036@gmail.com>
Date:   Mon Aug 7 12:21:47 2023 +0530

    this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ |
```

) lets add one more change

```
MINGW64:/E/gitprac
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ touch src/dev.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/dev.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git add dev.py
fatal: pathspec 'dev.py' did not match any files

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git add src/dev.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   src/dev.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git commit -m "this is second commit"
[master ebddd0e] this is second commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 src/dev.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$
```



MINGW64:/E/gitprac



ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)

\$ git status

On branch master

nothing to commit, working tree clean

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)

\$ git log

commit ebddd0ec9e9514803a162c969596a26339a31149 (HEAD -> master)

Author: sujeeth <rsk1036@gmail.com>

Date: Mon Aug 7 12:27:03 2023 +0530

this is second commit

commit 06ece927e49f8923a235747f8bafb9ef84907655

Author: sujeeth <rsk1036@gmail.com>

Date: Mon Aug 7 12:21:47 2023 +0530

this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)

\$



Type here to search




```
MINGW64:/E/gitprac
$ ls
src

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ mkdir test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ ls
src  test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ touch test/app.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    test/

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git add test/app.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test/app.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$
```




MINGW64:/E/gitprac



```
commit 06ece927e49f8923a235747f8bafb9ef84907655
```

```
Author: sujeeth <rsk1036@gmail.com>
```

```
Date: Mon Aug 7 12:21:47 2023 +0530
```

```
this is first commit
```

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
```

```
$ git commit -m "this is third commit"
```

```
[master dcd0029] this is third commit
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 test/app.py
```

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
```

```
$ git log
```

```
commit dcd0029c2fe5a4ade2eac5c0774789aee42d87f4 (HEAD -> master)
```

```
Author: sujeeth <rsk1036@gmail.com>
```

```
Date: Mon Aug 7 12:36:11 2023 +0530
```

```
this is third commit
```

```
commit ebddd0ec9e9514803a162c969596a26339a31149
```

```
Author: sujeeth <rsk1036@gmail.com>
```

```
Date: Mon Aug 7 12:27:03 2023 +0530
```

```
this is second commit
```

```
commit 06ece927e49f8923a235747f8bafb9ef84907655
```

```
Author: sujeeth <rsk1036@gmail.com>
```

```
Date: Mon Aug 7 12:21:47 2023 +0530
```

```
this is first commit
```

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
```

```
$ |
```



Type here to search



) we have removed from the staging area file(pip.py)

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git add src/pip.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   src/pip.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git restore --staged pip.py
error: pathspec 'pip.py' did not match any file(s) known to git

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ cd src

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ git restore --staged pip.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    pip.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ |
```

```
MINGW64/E/gitprc
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    test/ask.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git add test/ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test/ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ ls
src test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ |

MINGW64/E/gitprc
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test/ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ ls
src test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git restore --staged ask.py
error: pathspec 'ask.py' did not match any file(s) known to git

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git restore --staged test/ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    test/ask.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$ ls
src test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprc (master)
$
```

```
MINGW64/E/gitprac x + v
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ cd test
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ ls
app.py ask.py
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ask.py

nothing added to commit but untracked files present (use "git add" to track)
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ cd ..
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ la
bash: la: command not found
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ ls
src test
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ |

MINGW64/E/gitprac/test x + v
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git rm --cached ask.py
fatal: pathspec 'ask.py' did not match any files
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ask.py

nothing added to commit but untracked files present (use "git add" to track)
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git rm -r --cached
rm 'test/app.py'
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ ls
app.py ask.py
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    app.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$
```

```
MINGW64/E/gitprac x + v
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    app.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ ls
app.py  ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ cd ..

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    test/app.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$

MINGW64/E/gitprac/test x + v
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ cd test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ ls
app.py  ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ touch pin.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ ls
app.py  ask.py  pin.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git add pin.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git commit -m "fourth commit"
[master 16495de4] fourth commit
1 file changed, 0 insertions(+), 0 deletions(-)
rename test/{app.py => pin.py} (100%)

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    app.py
    ask.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/test (master)
$ |
```

```
MINGW64/E/gitpract/test  X + v

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        app.py
        ask.py

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

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ git add app.py ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   app.py
        new file:   ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ ls
app.py ask.py pin.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ |

MINGW64/E/gitpract/test  X + v

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ git log
commit 1645de44763298484aff1f8e45b201cc102181d (HEAD -> master)
Author: sujeeth <rsk1036@gmail.com>
Date:   Tue Aug 8 11:16:38 2023 +0530

    fourth commit

commit fda90871d591955063c0f7b8b69ec92489e73c86
Author: sujeeth <rsk1036@gmail.com>
Date:   Tue Aug 8 10:49:20 2023 +0530

    third commit

commit dcd0029c2fe5a4ade2eac5c0774789aee42d87f4
Author: sujeeth <rsk1036@gmail.com>
Date:   Mon Aug 7 12:36:11 2023 +0530

    this is third commit

commit ebddd0ec9e9514803a162c909596a26339a31149
Author: sujeeth <rsk1036@gmail.com>
Date:   Mon Aug 7 12:27:03 2023 +0530

    this is second commit

commit 06ece927e49f8923a235747f8bafb9ef84907655
Author: sujeeth <rsk1036@gmail.com>
Date:   Mon Aug 7 12:21:47 2023 +0530

    this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitpract/test (master)
$ |
```



```
MINGW64/E/gitprac
src test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ cd src

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   ../test/app.py
        new file:   ../test/ask.py

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ git commit -m "aded changes five"
[master 1b54ff6] aded changes five
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test/app.py
 create mode 100644 test/ask.py

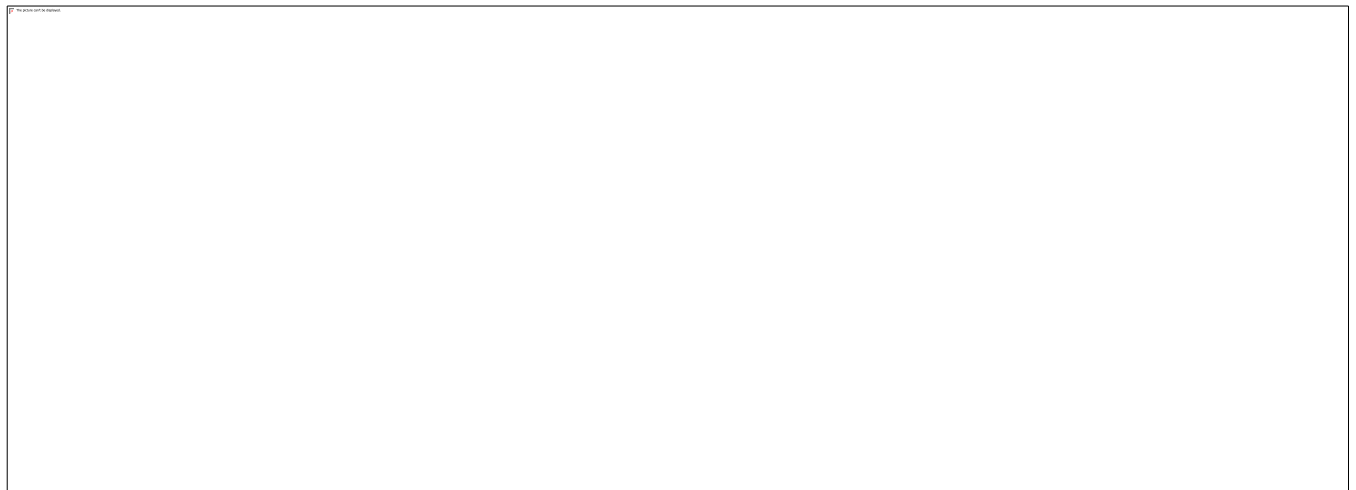
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ git status
On branch master
nothing to commit, working tree clean

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ cd..
bash: cd..: command not found

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac/src (master)
$ cd ..

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$
```

- In Git by default there will be one branch which is called as master which looks at latest commit id. Checkout commands moves the HEAD position. By default as master points to latest commit, HEAD points to master. IF you want navigate back in history git checkout to get back to latest commit git checkout master
- Note: checkout has other flavors which we are yet to know.



Lets Dive into How git works

git cat-file -t (commit id) it tells the type of what you are looking at
git cat-file -p it prints the values


```
ADMIN@DESKTOP-T9CDK8H MINGW64 /c/WINDOWS/System32
$ cd ../../..

ADMIN@DESKTOP-T9CDK8H MINGW64 /
$ cd E

ADMIN@DESKTOP-T9CDK8H MINGW64 /E
$ cd gitprac/

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git cat-file -p 06ece927e49f8923a235747f8bafb9ef84907655
tree d488ea5afb901c017d1efc6afe11dfffdbdcae99
author sujeeth <rsk1036@gmail.com> 1691391107 +0530
committer sujeeth <rsk1036@gmail.com> 1691391107 +0530

this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git cat-file -t 06ece927e49f8923a235747f8bafb9ef84907655
commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ ls
src test

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ |
```

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git log --oneline
1b54ff6 (HEAD -> master) added changes five
1645de4 fourth commit
fda9087 third commit
dcd0029 this is third commit
ebddd0e this is second commit
06ece92 this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$
```

- In Git by default there will be one branch which is called as master which looks at latest commit id.
- Checkout commands moves the HEAD position. By default as master points to latest commit, HEAD points to master. IF you want navigate back in history `git checkout <commit-id>` to get back to latest commit `git checkout master`
- Note: checkout has other flavors which we are yet to know.
-

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git log --oneline
1b54ff6 (HEAD -> master) added changes five
1645de4 fourth commit
fda9087 third commit
dcd0029 this is third commit
ebddd0e this is second commit
06ece92 this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git cat-file -t 1b54ff6
commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git cat-file -p 1b54ff6
tree 1846926981a8fcb81e006a099efffa718d6b708e
parent 1645de447632984844aff1f8e45b201cc102181d
author sujeeth <rsk1036@gmail.com> 1691473945 +0530
committer sujeeth <rsk1036@gmail.com> 1691473945 +0530

added changes five

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git cat-file -p 06ece92
tree d488ea5afb901c617d1efc6afell1dffdhdcae99
author sujeeth <rsk1036@gmail.com> 1691391107 +0530
committer sujeeth <rsk1036@gmail.com> 1691391107 +0530

this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$
```

The above is git branch changing

Git branch delete suj

```
ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (suj)
$ git checkout master
Switched to branch 'master'

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git branch
* master
  suj

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git log --oneline
1b54ff6 (HEAD -> master, suj) added changes five
1645de4 fourth commit
fda9087 third commit
dcd0029 this is third commit
ebddd0e this is second commit
06ece92 this is first commit

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git branch --delete suj
Deleted branch suj (was 1b54ff6).

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$ git branch
* master

ADMIN@DESKTOP-T9CDK8H MINGW64 /E/gitprac (master)
$
```

Git branch to main and then create and switch a branch suz

```
ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (suz)
$ git branch
  main
* suz

ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (suz)
$ git log --oneline
1b54ff6 (HEAD -> suz, main) added changes five
1645da4 fourth commit
fda9087 third commit
dcd0029 this is third commit
ebddd0e this is second commit
06ece92 this is first commit

ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (suz)
$ git checkout main
Switched to branch 'main'

ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (main)
$ git branch
  main
* suz

ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (main)
$ git merge suz
Already up to date.

ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (main)
$ git branch
  main
* suz

ADMINDESKTOP-T9CDK8H MINGW64 /E/gitprac (main)
$ |
```