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**Year:** Final

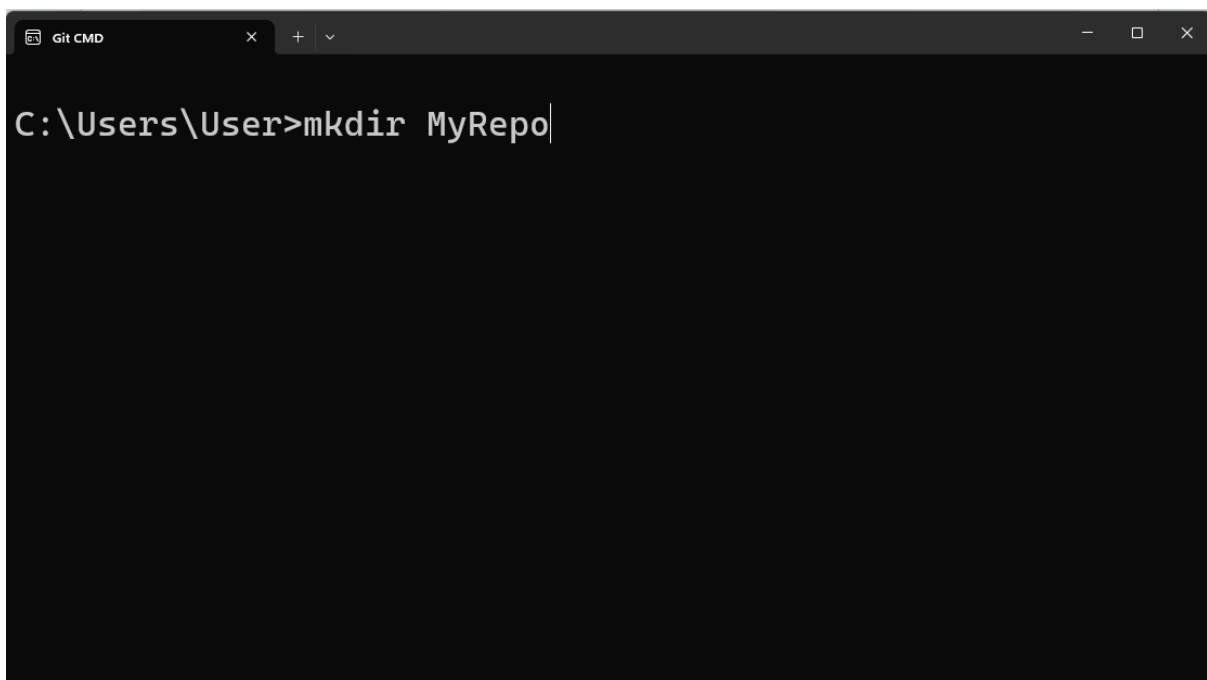
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## 1. Create a local git repo with the name "MyRepo"

Cmd:

**> mkdir MyRepo**

Mkdir makes a directory/folder in the local environment in the specified local path.



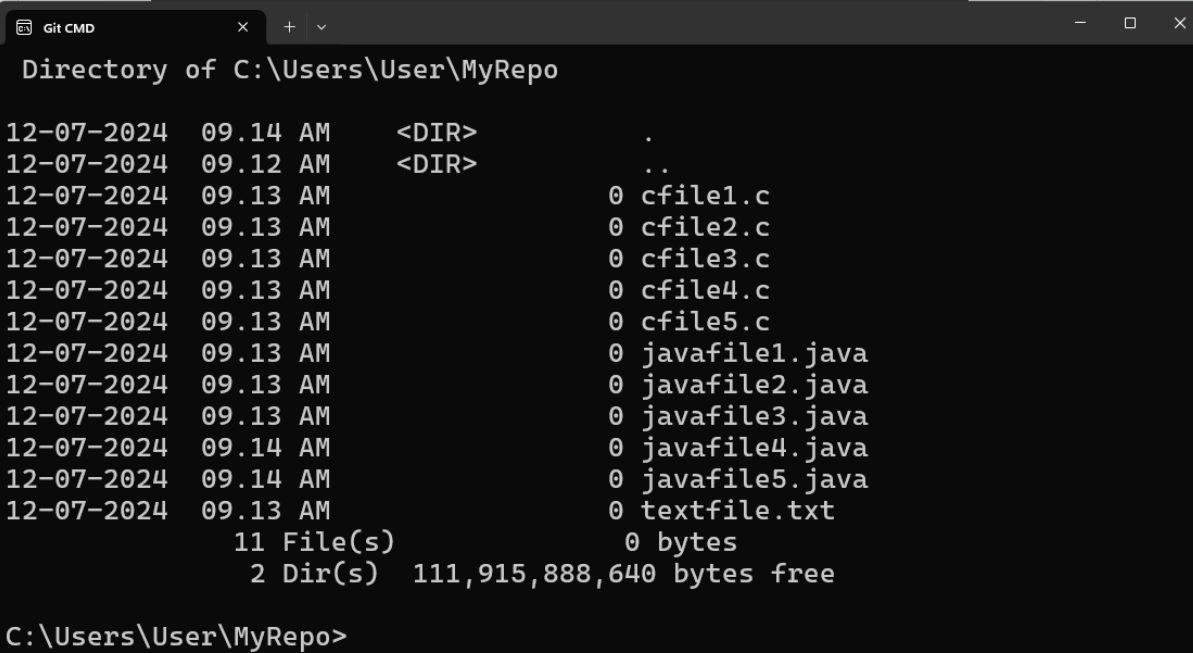
```
Git CMD
C:\Users\User>mkdir MyRepo
```

## 2. create one .txt file, five .c files and five .java files in the working area.

### Cmd:

> cat >> <filename>.<filetype>

The command to create a file using command prompt i have used is above



```
Git CMD
Directory of C:\Users\User\MyRepo

12-07-2024  09.14 AM    <DIR>          .
12-07-2024  09.12 AM    <DIR>          ..
12-07-2024  09.13 AM             0 cfile1.c
12-07-2024  09.13 AM             0 cfile2.c
12-07-2024  09.13 AM             0 cfile3.c
12-07-2024  09.13 AM             0 cfile4.c
12-07-2024  09.13 AM             0 cfile5.c
12-07-2024  09.13 AM             0 javafile1.java
12-07-2024  09.13 AM             0 javafile2.java
12-07-2024  09.13 AM             0 javafile3.java
12-07-2024  09.14 AM             0 javafile4.java
12-07-2024  09.14 AM             0 javafile5.java
12-07-2024  09.13 AM             0 textfile.txt
                11 File(s)                0 bytes
                2 Dir(s)  111,915,888,640 bytes free

C:\Users\User\MyRepo>
```

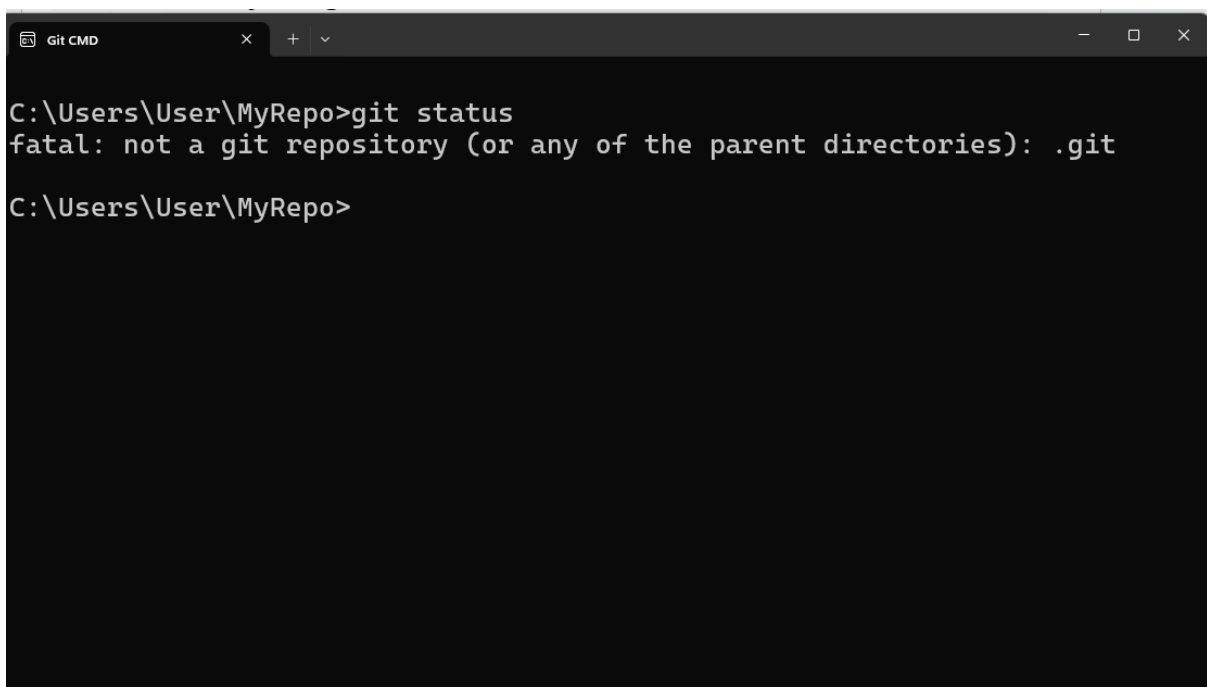
### 3. Verify the git status

Cmd:

> git status

**Try.**

To work with the git we have to initially initialize the git repository which store the logs,status,head,branches,etc.

A screenshot of a Windows command prompt window titled "Git CMD". The window has a dark background and a light-colored title bar with standard Windows window controls (minimize, maximize, close). The command prompt shows the following text:

```
C:\Users\User\MyRepo>git status
fatal: not a git repository (or any of the parent directories): .git
C:\Users\User\MyRepo>
```

The text is white on a black background. The first line shows the command prompt at the directory C:\Users\User\MyRepo, followed by the command 'git status'. The second line shows the output of the command, which is an error message: 'fatal: not a git repository (or any of the parent directories): .git'. The third line shows the command prompt again, ready for the next command.

## Catch.

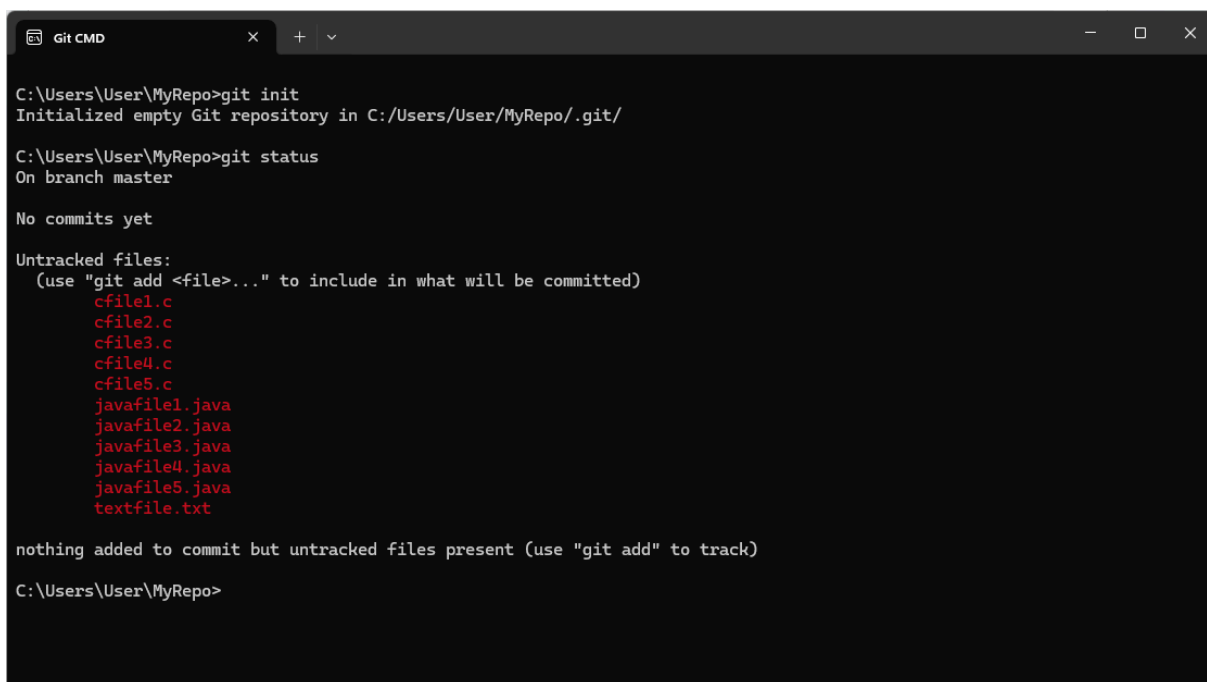
To resolve the above exception i have initialized the git repository using

> **git init**

And got the status of current local git repository using below command

> **git status**

I noticed that the files i have created are currently in unstaged state.



```
Git CMD
C:\Users\User\MyRepo>git init
Initialized empty Git repository in C:/Users/User/MyRepo/.git/

C:\Users\User\MyRepo>git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        cfile1.c
        cfile2.c
        cfile3.c
        cfile4.c
        cfile5.c
        javafile1.java
        javafile2.java
        javafile3.java
        javafile4.java
        javafile5.java
        textfile.txt

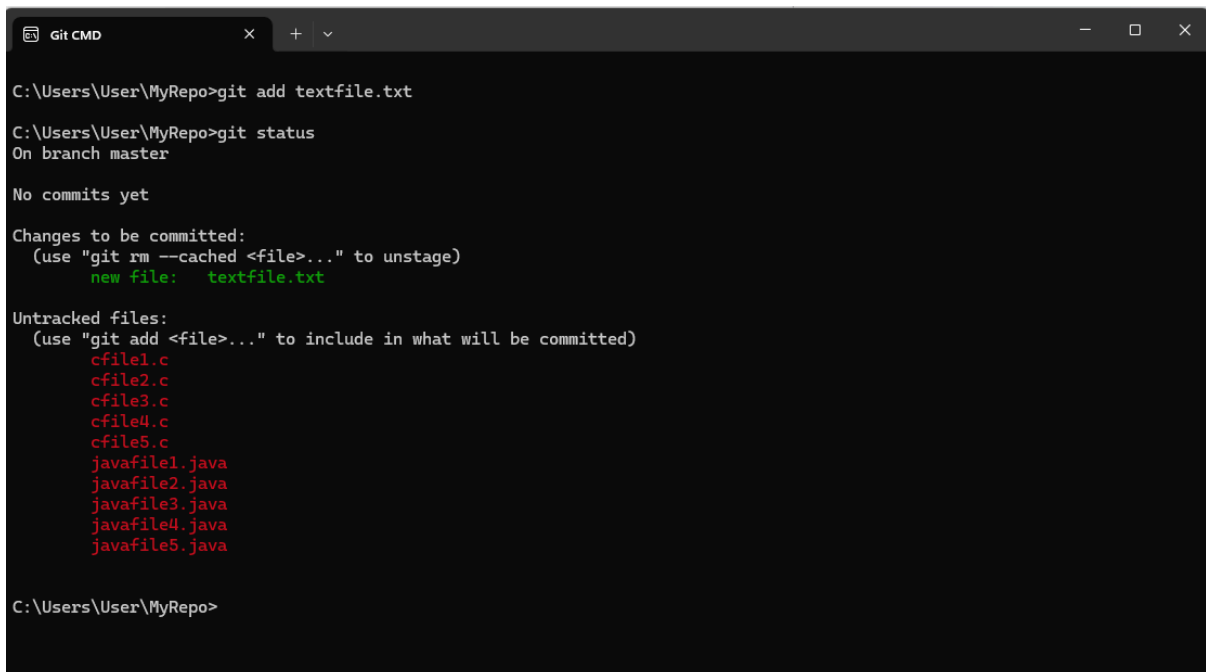
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\User\MyRepo>
```

4. Add only the .txt into the staging area [and](#)
5. [verify the git status](#)

## Cmd

≥ **git add textfile.txt**

This command adds only the .txt file in the staged state.



```
Git CMD
C:\Users\User\MyRepo>git add textfile.txt

C:\Users\User\MyRepo>git status
On branch master

No commits yet

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

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    cfile1.c
    cfile2.c
    cfile3.c
    cfile4.c
    cfile5.c
    javafile1.java
    javafile2.java
    javafile3.java
    javafile4.java
    javafile5.java

C:\Users\User\MyRepo>
```

## 6. Make a commit with the name "TXT Commit"

### Cmd

> git commit -m "TXT"

The commit command save the changes from the stages state.

-m

This denoted message to be display in the logs which improves the readability

```
Git CMD
C:\Users\User\MyRepo>git commit -m "TXT"
[master (root-commit) eb3827d] TXT
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 textfile.txt
C:\Users\User\MyRepo>
```

```
C:\Users\User\MyRepo>git log
commit eb3827d553c2a79b08a7a641e4fa81728979e815 (HEAD -> master)
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:33:16 2024 +0530

    TXT
C:\Users\User\MyRepo>
```

## 7. Add all .c files into the staging area And

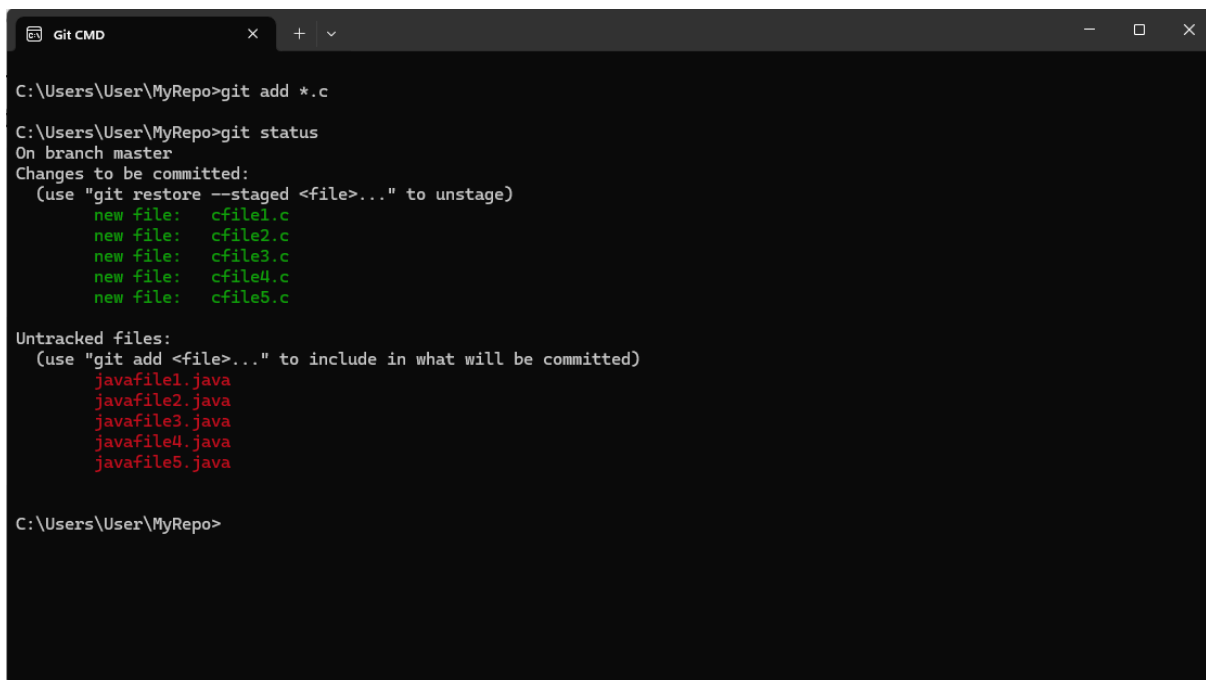
## 8. verify the git status

### Cmd

> git add \*.c

The \*.c is the segment of regular expression which denotes that all the files in current file will taken to execute.

> git status



```
Git CMD
C:\Users\User\MyRepo>git add *.c

C:\Users\User\MyRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   cfile1.c
        new file:   cfile2.c
        new file:   cfile3.c
        new file:   cfile4.c
        new file:   cfile5.c

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        javafile1.java
        javafile2.java
        javafile3.java
        javafile4.java
        javafile5.java

C:\Users\User\MyRepo>
```

## 9. Make a commit with the name "C Commit"

### Cmd

> git commit -m "C Commit"

```
C:\Users\User\MyRepo>git commit -m "C Commit"
[master 9cc2260] C Commit
 5 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 cfile1.c
 create mode 100644 cfile2.c
 create mode 100644 cfile3.c
 create mode 100644 cfile4.c
 create mode 100644 cfile5.c

C:\Users\User\MyRepo>
```



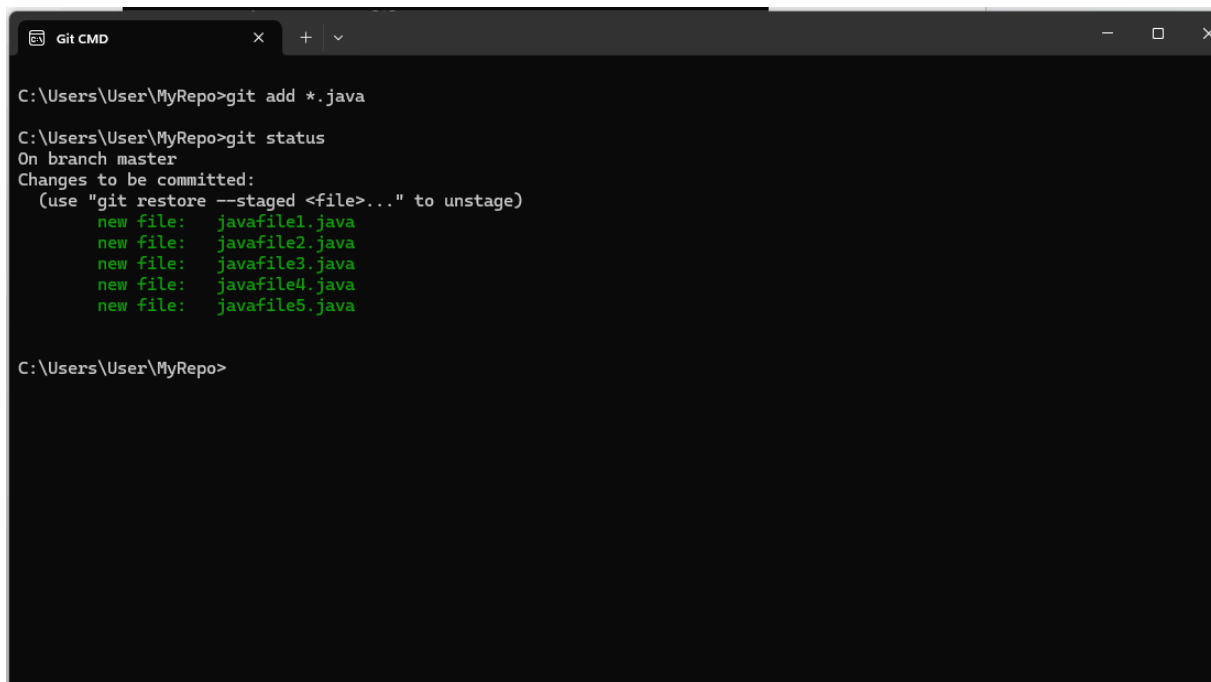
10 .Add all .java files into the staging area And

11. verify the git status

Cmd

> git add \*.java

> git status



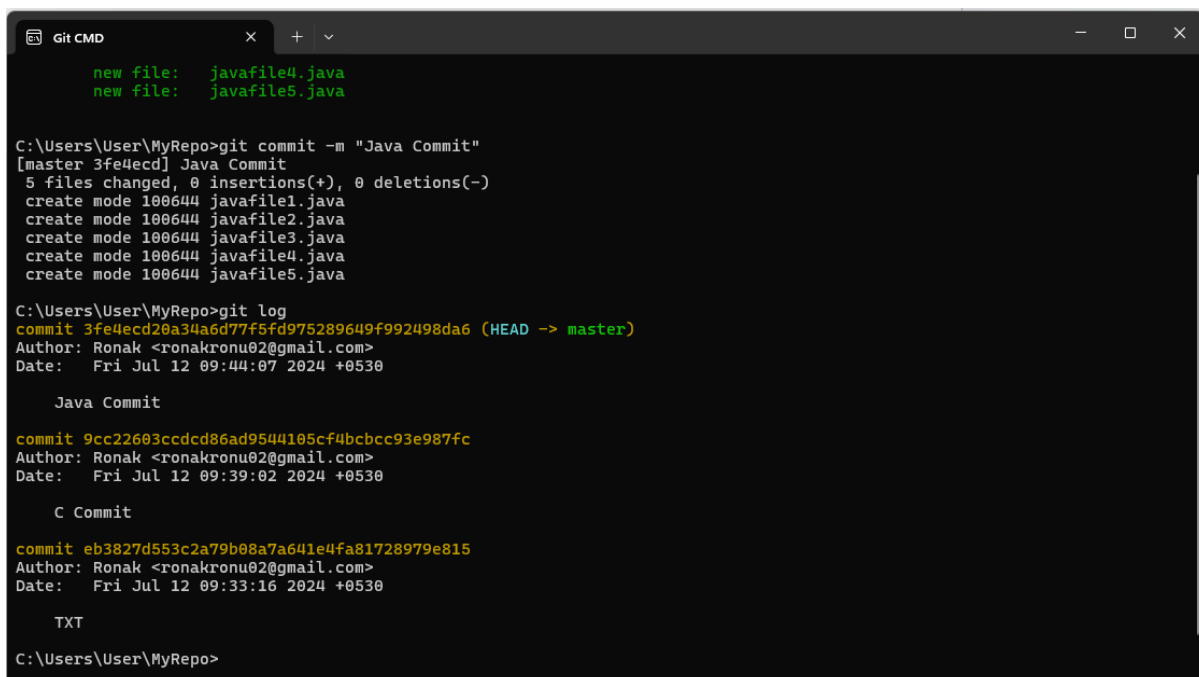
```
Git CMD
C:\Users\User\MyRepo>git add *.java
C:\Users\User\MyRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   javafile1.java
    new file:   javafile2.java
    new file:   javafile3.java
    new file:   javafile4.java
    new file:   javafile5.java

C:\Users\User\MyRepo>
```

## 12. Make a commit with the name "Java Commit"

### Cmd

> git commit -m "Java Commit"



```
Git CMD
new file:   javafile4.java
new file:   javafile5.java

C:\Users\User\MyRepo>git commit -m "Java Commit"
[master 3fe4ecd] Java Commit
5 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 javafile1.java
create mode 100644 javafile2.java
create mode 100644 javafile3.java
create mode 100644 javafile4.java
create mode 100644 javafile5.java

C:\Users\User\MyRepo>git log
commit 3fe4ecd20a34a6d77f5fd975289649f992498da6 (HEAD -> master)
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:44:07 2024 +0530

    Java Commit

commit 9cc22603ccdc86ad9544105cf4bcbcc93e987fc
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:39:02 2024 +0530

    C Commit

commit eb3827d553c2a79b08a7a641e4fa81728979e815
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:33:16 2024 +0530

    TXT

C:\Users\User\MyRepo>
```

### 13. Delete all .java files from working area

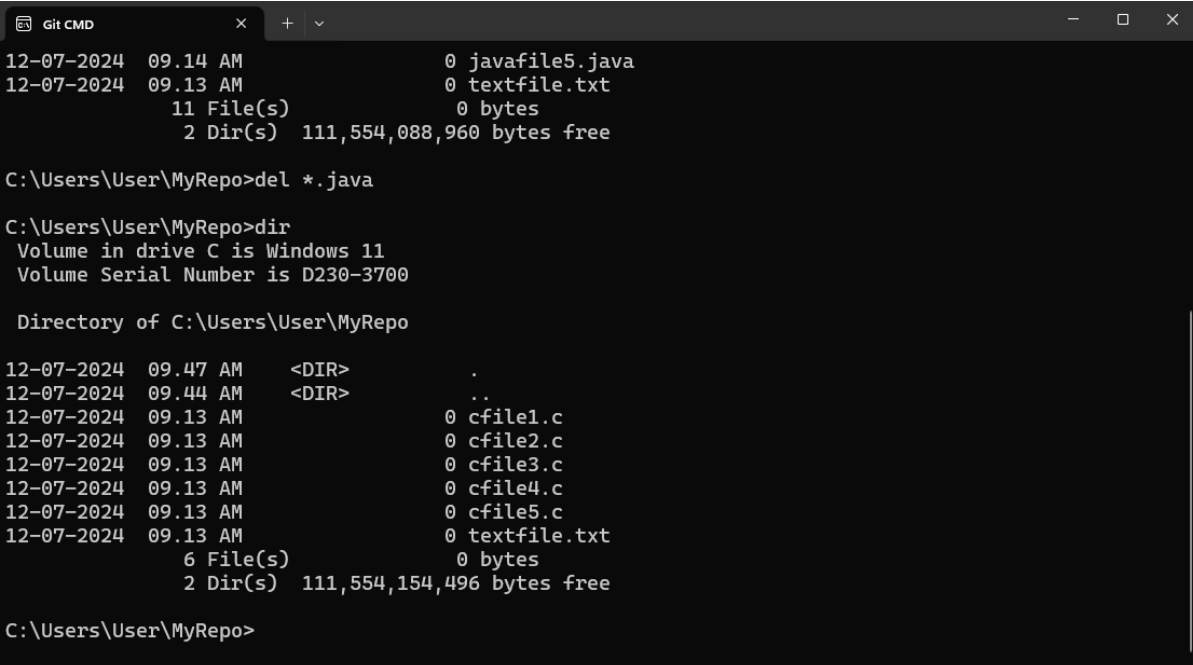
#### Cmd

> del <filename>.<filetype>

In git cmd the del command is used to delete the file from the working area as .

> del \*.java

This command deletes all the java files irrespective of naming.



```
Git CMD
12-07-2024 09.14 AM      0 javafile5.java
12-07-2024 09.13 AM      0 textfile.txt
      11 File(s)          0 bytes
      2 Dir(s)  111,554,088,960 bytes free

C:\Users\User\MyRepo>del *.java

C:\Users\User\MyRepo>dir
Volume in drive C is Windows 11
Volume Serial Number is D230-3700

Directory of C:\Users\User\MyRepo

12-07-2024 09.47 AM      <DIR>      .
12-07-2024 09.44 AM      <DIR>      ..
12-07-2024 09.13 AM      0 cfile1.c
12-07-2024 09.13 AM      0 cfile2.c
12-07-2024 09.13 AM      0 cfile3.c
12-07-2024 09.13 AM      0 cfile4.c
12-07-2024 09.13 AM      0 cfile5.c
12-07-2024 09.13 AM      0 textfile.txt
      6 File(s)          0 bytes
      2 Dir(s)  111,554,154,496 bytes free

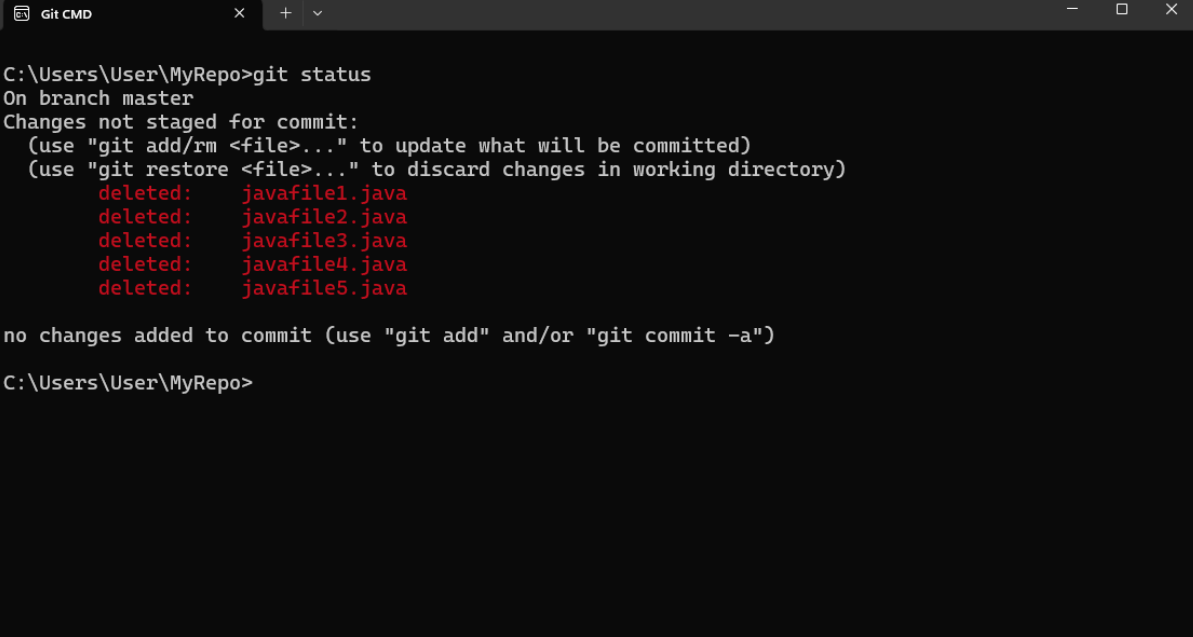
C:\Users\User\MyRepo>
```

## 14. Now see the status

cmd

> git status

I have noticed that all the changes i have made recently are didnt staged and showing those files are unstaged and are ready to stage



```
Git CMD
C:\Users\User\MyRepo>git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    javafile1.java
        deleted:    javafile2.java
        deleted:    javafile3.java
        deleted:    javafile4.java
        deleted:    javafile5.java

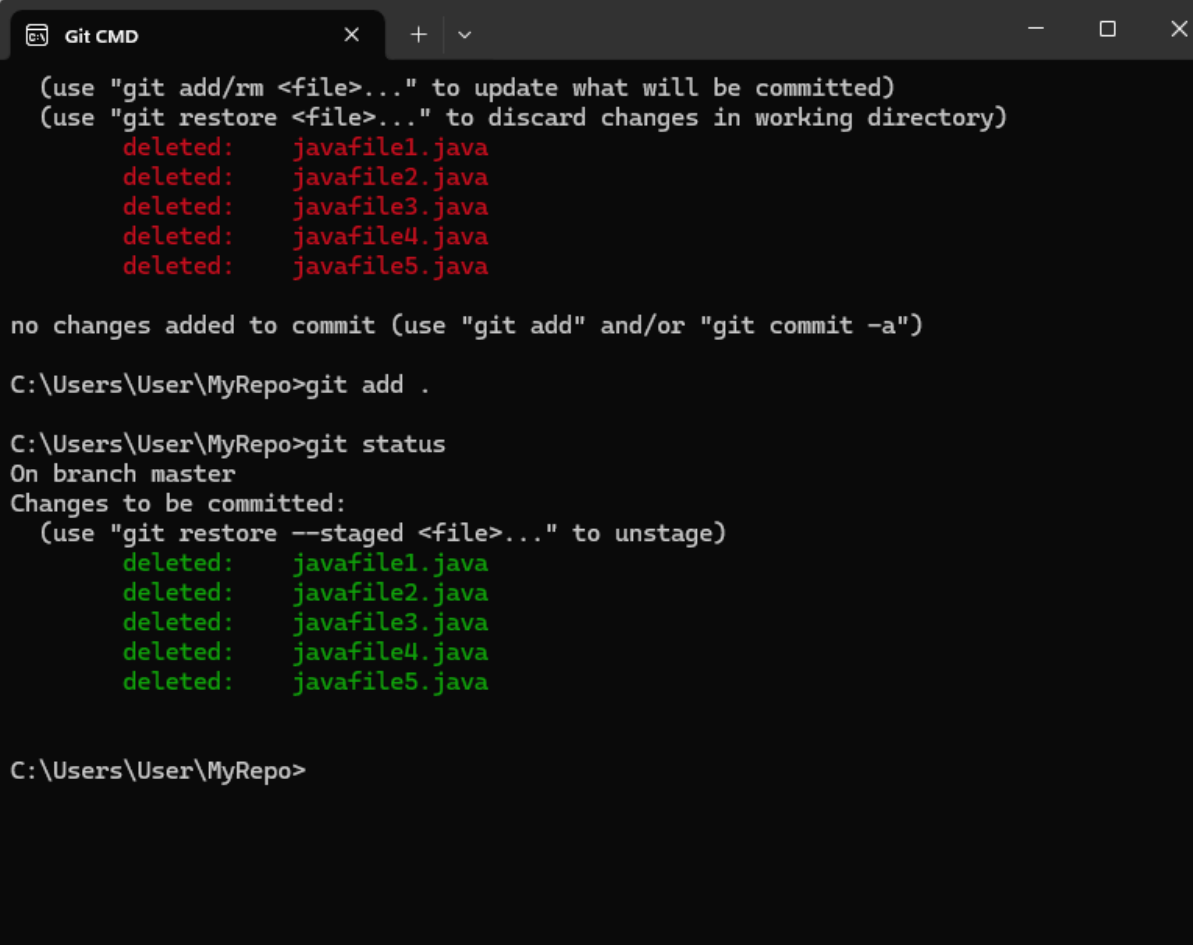
no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\User\MyRepo>
```

## 15. add the changes into the staging area

### Cmd

> **git add .**

This command adds all files in current working directory.



```
Git CMD
x + v
- □ x

(use "git add/rm <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
deleted:    javafile1.java
deleted:    javafile2.java
deleted:    javafile3.java
deleted:    javafile4.java
deleted:    javafile5.java

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

C:\Users\User\MyRepo>git add .

C:\Users\User\MyRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    javafile1.java
    deleted:    javafile2.java
    deleted:    javafile3.java
    deleted:    javafile4.java
    deleted:    javafile5.java

C:\Users\User\MyRepo>
```

## 16. Make a commit with the name "Delete Java Commit"

### Cmd

> git commit -m "Delete Java Commit"

```
Git CMD
12-07-2024 09.13 AM 0 cfile4.c
12-07-2024 09.13 AM 0 cfile5.c
12-07-2024 09.13 AM 0 textfile.txt
6 File(s) 0 bytes
2 Dir(s) 111,550,525,440 bytes free

C:\Users\User\MyRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:   javafile1.java
        deleted:   javafile2.java
        deleted:   javafile3.java
        deleted:   javafile4.java
        deleted:   javafile5.java

C:\Users\User\MyRepo>git commit -m
error: switch 'm' requires a value

C:\Users\User\MyRepo>git commit -m "Delete java commit"
[master 276ca70] Delete java commit
5 files changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 javafile1.java
delete mode 100644 javafile2.java
delete mode 100644 javafile3.java
delete mode 100644 javafile4.java
delete mode 100644 javafile5.java

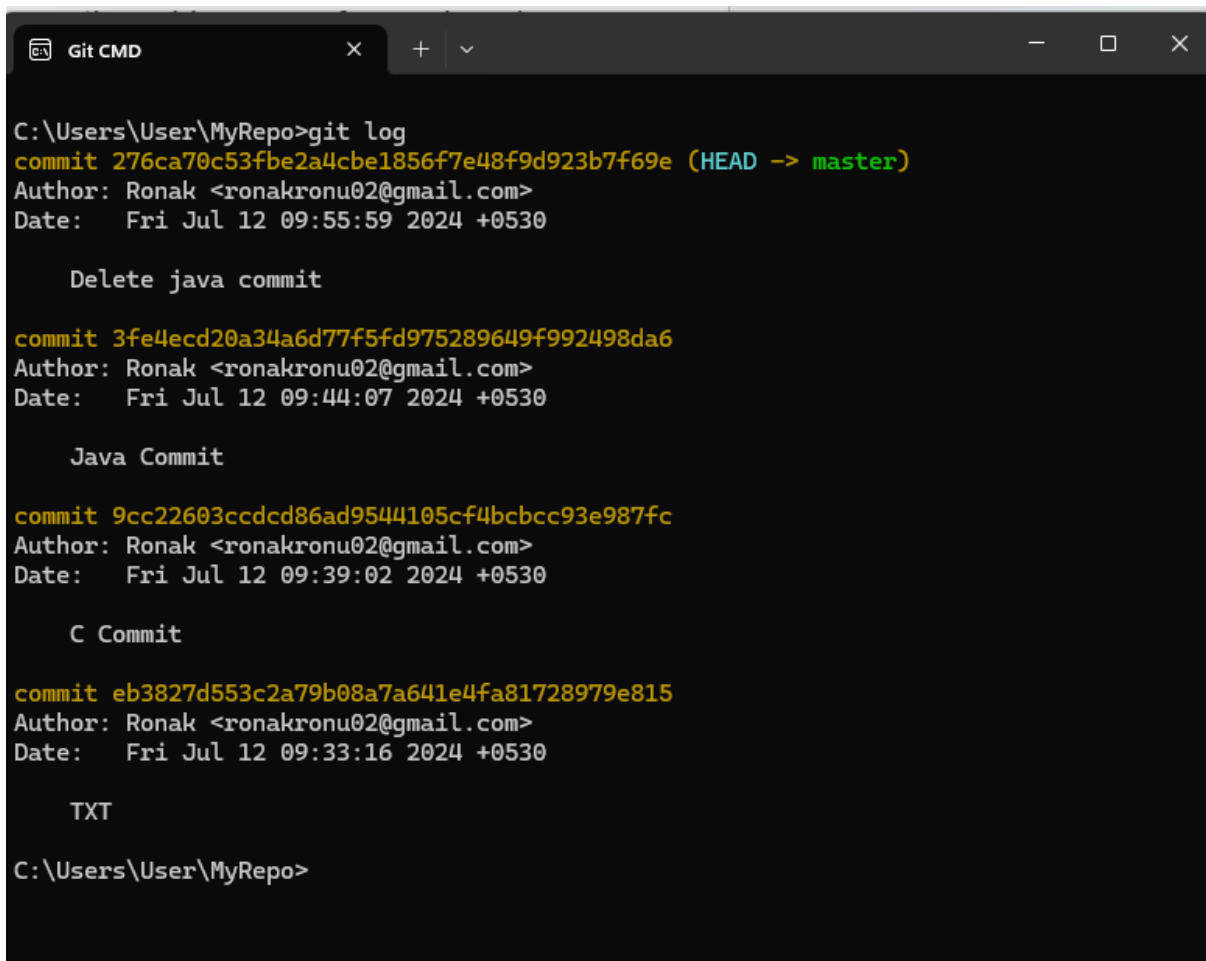
C:\Users\User\MyRepo>
```

## 17. display all commit details

### Cmd

#### > git log

To view all the commit history i use the git log command which shows all the commits/operations i have performed and staged all the execution or updation in the local repository.



```
C:\Users\User\MyRepo>git log
commit 276ca70c53fbe2a4cbe1856f7e48f9d923b7f69e (HEAD -> master)
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:55:59 2024 +0530

    Delete java commit

commit 3fe4ecd20a34a6d77f5fd975289649f992498da6
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:44:07 2024 +0530

    Java Commit

commit 9cc22603ccdc86ad9544105cf4bcbcc93e987fc
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:39:02 2024 +0530

    C Commit

commit eb3827d553c2a79b08a7a641e4fa81728979e815
Author: Ronak <ronakronu02@gmail.com>
Date:   Fri Jul 12 09:33:16 2024 +0530

    TXT

C:\Users\User\MyRepo>
```