

Name: Vignesh A

Dept: CSBS – final year

Reg no: 73772127156

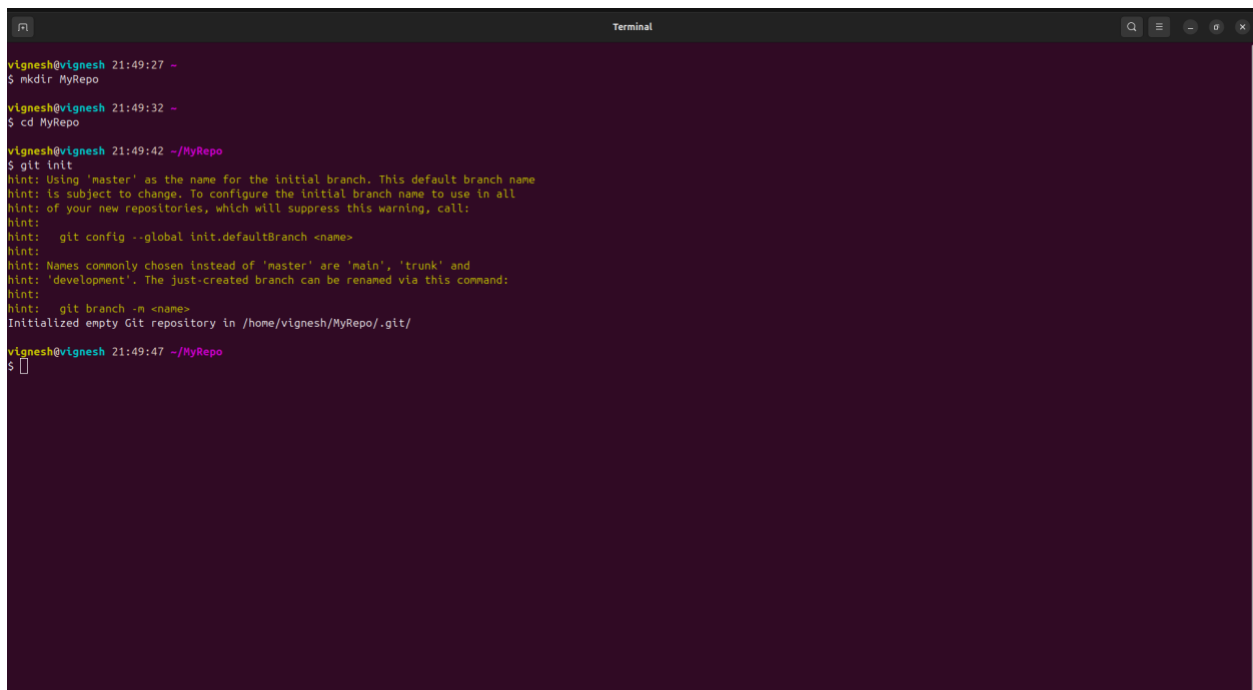
Date: 11.7.2024

Topic: Git

Assignment -1

Git Lab:

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



```
vignesh@vignesh 21:49:27 ~
$ mkdir MyRepo

vignesh@vignesh 21:49:32 ~
$ cd MyRepo

vignesh@vignesh 21:49:42 ~/MyRepo
$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/vignesh/MyRepo/.git/

vignesh@vignesh 21:49:47 ~/MyRepo
$
```

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

```
Terminal
vignesh@vignesh 21:52:33 ~/MyRepo
$ touch file.txt
Touching file.txt

vignesh@vignesh 21:53:20 ~/MyRepo
$ /usr/bin/touch file{1..5}.c

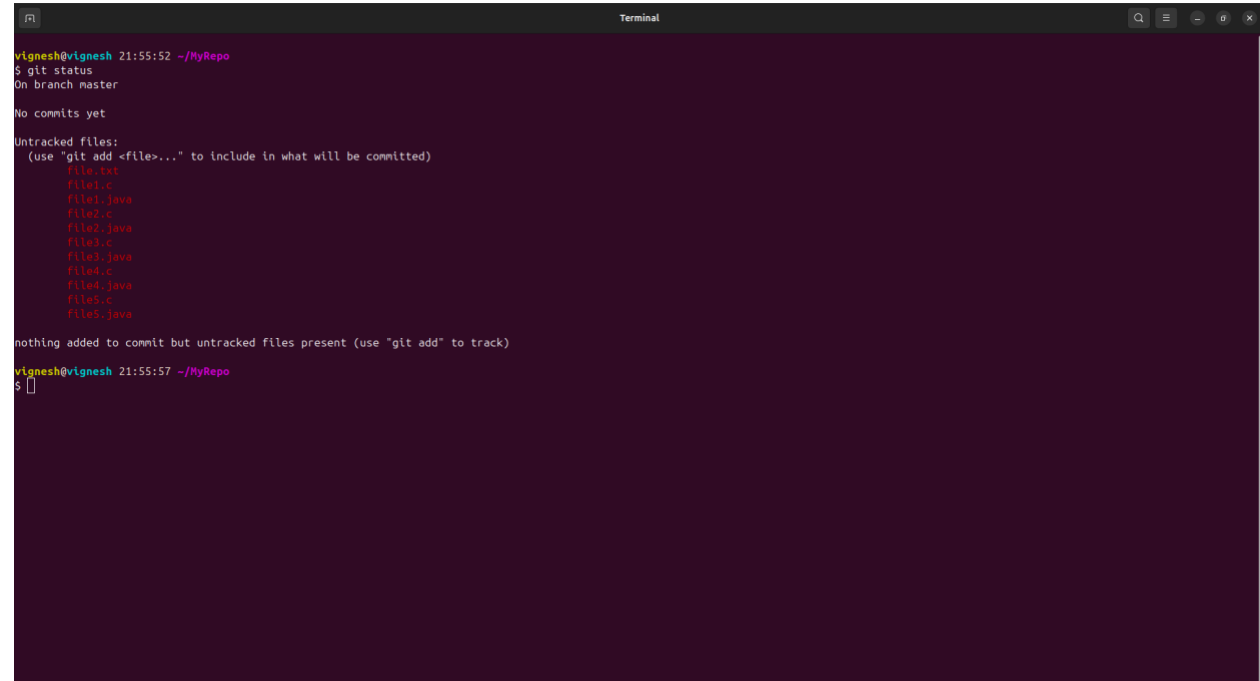
vignesh@vignesh 21:53:51 ~/MyRepo
$ ls
file1.c  file2.c  file3.c  file4.c  file5.c  file.txt

vignesh@vignesh 21:53:56 ~/MyRepo
$ /usr/bin/touch file{1..5}.java

vignesh@vignesh 21:54:09 ~/MyRepo
$ ls
file1.c  file1.java  file2.c  file2.java  file3.c  file3.java  file4.c  file4.java  file5.c  file5.java  file.txt

vignesh@vignesh 21:54:12 ~/MyRepo
$
```

3. Verify the git status

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 21:55:52 ~/MyRepo". The command "\$ git status" has been executed. The output shows "On branch master", "No commits yet", and a list of untracked files: file.txt, file1.c, file1.java, file2.c, file2.java, file3.c, file3.java, file4.c, file4.java, file5.c, and file5.java. A message at the bottom says "nothing added to commit but untracked files present (use 'git add' to track)". The prompt is now "\$ ".


```
vignesh@vignesh 21:55:52 ~/MyRepo
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file.txt
        file1.c
        file1.java
        file2.c
        file2.java
        file3.c
        file3.java
        file4.c
        file4.java
        file5.c
        file5.java

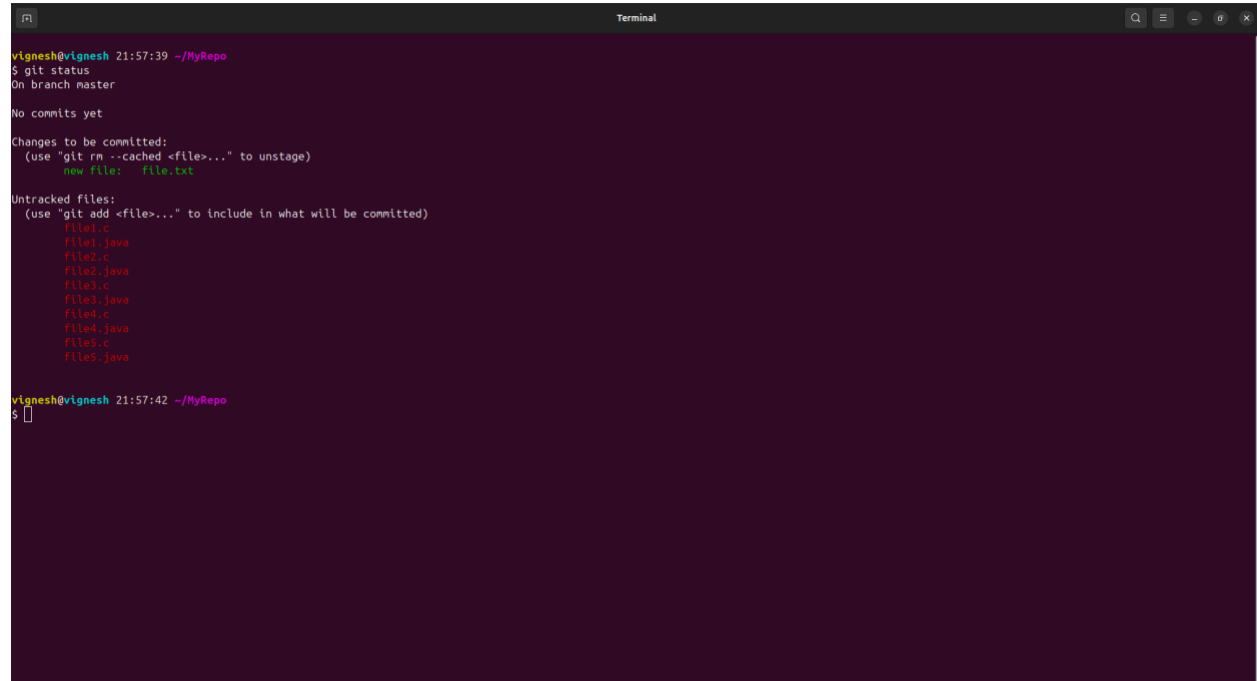
nothing added to commit but untracked files present (use "git add" to track)
vignesh@vignesh 21:55:57 ~/MyRepo
$ 
```

4. Add only the .txt into the staging area

A terminal window with a dark purple background and a black title bar labeled "Terminal". The terminal shows a user named vignesh at a machine named vignesh, in a directory named ~/MyRepo. The user has entered the command "git add file.txt". The prompt is "\$".

```
vignesh@vignesh 21:57:17 ~/MyRepo
$ git add file.txt
vignesh@vignesh 21:57:19 ~/MyRepo
$
```

5. verify the git status

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 21:57:39 ~/MyRepo". The command "\$ git status" has been executed. The output shows the repository is on the master branch with no commits yet. It lists changes to be committed: a new file "file.txt". It also lists untracked files: "file1.c", "file1.java", "file2.c", "file2.java", "file3.c", "file3.java", "file4.c", "file4.java", "file5.c", and "file5.java". The prompt is now "vignesh@vignesh 21:57:42 ~/MyRepo" followed by a shell prompt "\$" and a cursor.

```
vignesh@vignesh 21:57:39 ~/MyRepo
$ git status
On branch master

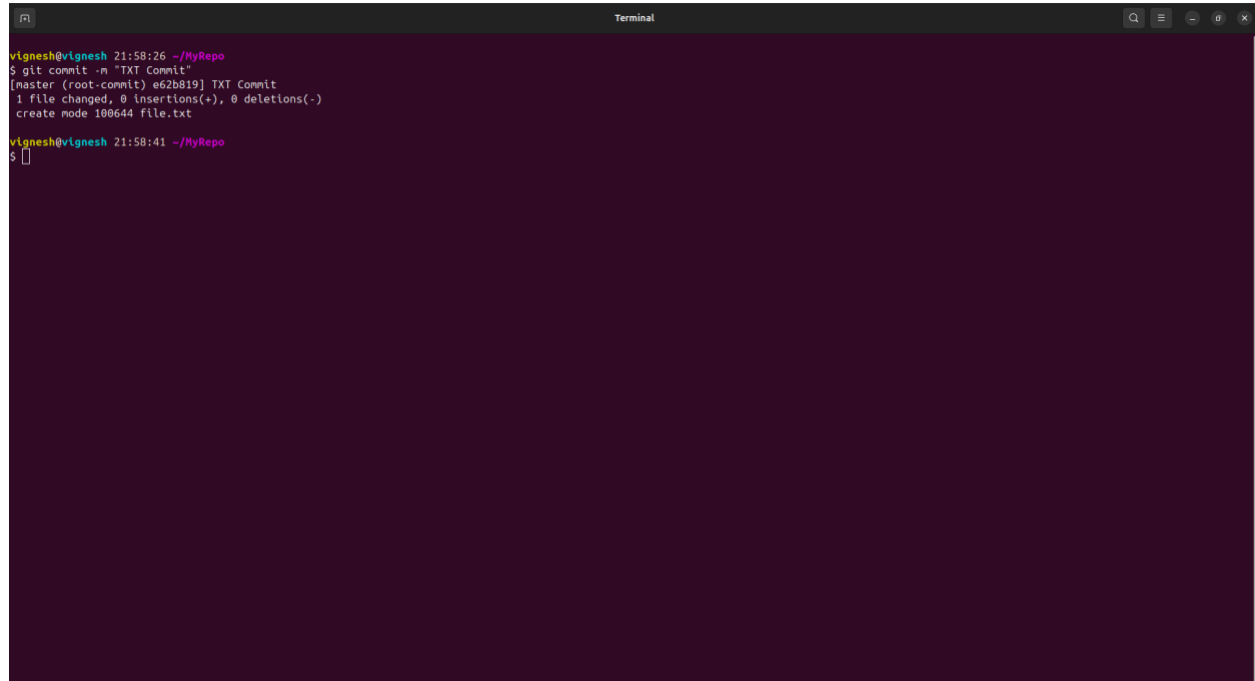
No commits yet

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

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.c
        file1.java
        file2.c
        file2.java
        file3.c
        file3.java
        file4.c
        file4.java
        file5.c
        file5.java

vignesh@vignesh 21:57:42 ~/MyRepo
$
```

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

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 21:58:26 ~/MyRepo". The user enters the command "\$ git commit -m 'TXT Commit'". The output shows the commit hash "[master (root-commit) e62b819] TXT Commit", a summary "1 file changed, 0 insertions(+), 0 deletions(-)", and a diffstat "create mode 100644 file.txt". The prompt then changes to "vignesh@vignesh 21:58:41 ~/MyRepo" and the user enters a dollar sign "\$" followed by a cursor.

```
vignesh@vignesh 21:58:26 ~/MyRepo
$ git commit -m "TXT Commit"
[master (root-commit) e62b819] TXT Commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file.txt

vignesh@vignesh 21:58:41 ~/MyRepo
$ █
```

7. Add all .c files into the staging area

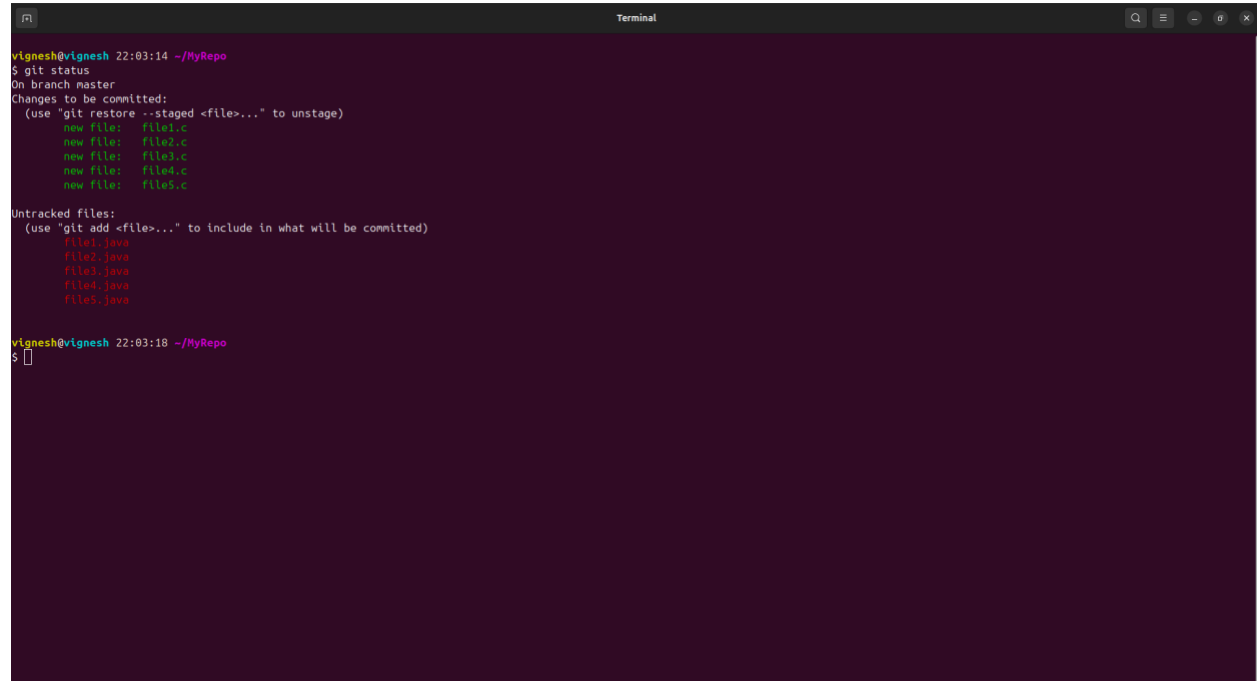


```
vignesh@vignesh 22:02:20 ~/MyRepo
$ git add *.c

vignesh@vignesh 22:02:43 ~/MyRepo
$
```

The image shows a terminal window with a dark background. The prompt is `vignesh@vignesh` and the current directory is `~/MyRepo`. The command `git add *.c` is entered and executed. The prompt changes to `vignesh@vignesh` and the time to `22:02:43`. The command is then entered again, and the prompt changes to `$`.

8. verify the git status

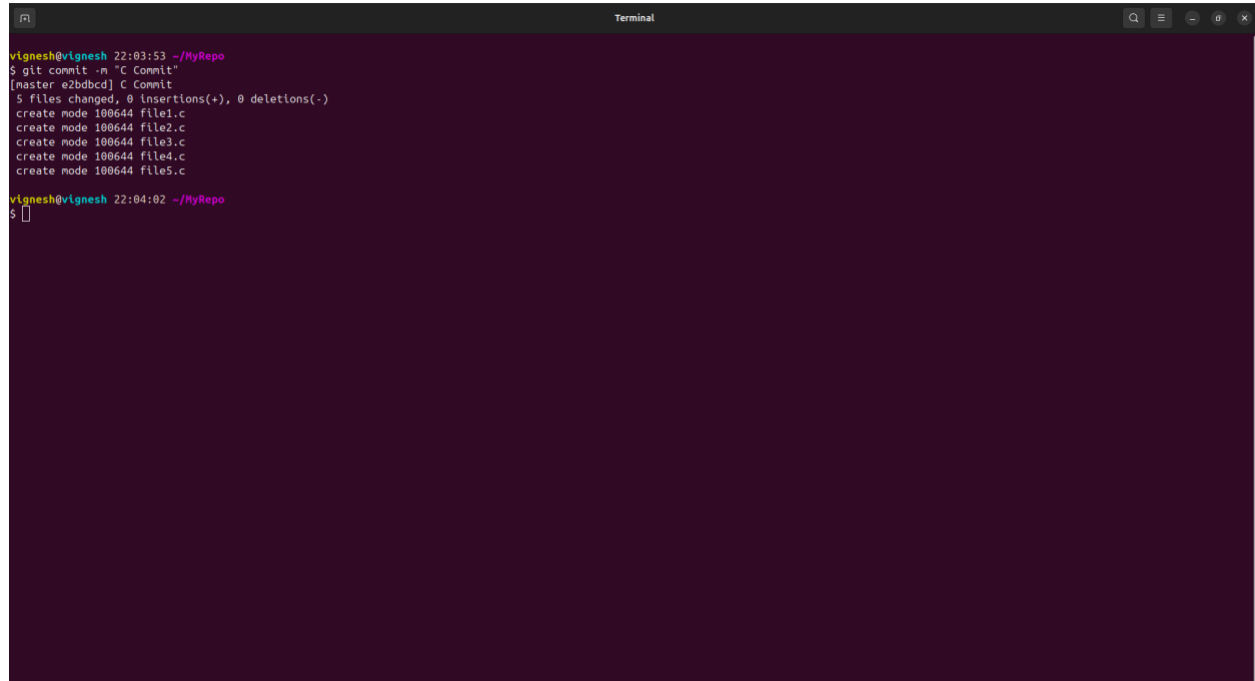
A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 22:03:14 ~/MyRepo". The command "\$ git status" has been executed. The output shows the current branch is "master". It lists five changes to be committed, each as a new file (file1.c through file5.c). It also lists five untracked files (file1.java through file5.java). The prompt returns to "\$ " at the bottom.

```
vignesh@vignesh 22:03:14 ~/MyRepo
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file1.c
        new file:   file2.c
        new file:   file3.c
        new file:   file4.c
        new file:   file5.c

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.java
        file2.java
        file3.java
        file4.java
        file5.java

vignesh@vignesh 22:03:18 ~/MyRepo
$
```


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

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 22:03:53 ~/MyRepo". The user enters the command "\$ git commit -m 'C Commit'". The output shows the commit hash "[master e2bdbcd] C Commit", a summary "5 files changed, 0 insertions(+), 0 deletions(-)", and a list of five new files created: file1.c, file2.c, file3.c, file4.c, and file5.c, each with mode 100644. The prompt then changes to "vignesh@vignesh 22:04:02 ~/MyRepo" and the user enters a dollar sign "\$" followed by a cursor.

```
vignesh@vignesh 22:03:53 ~/MyRepo
$ git commit -m "C Commit"
[master e2bdbcd] C Commit
5 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.c
create mode 100644 file2.c
create mode 100644 file3.c
create mode 100644 file4.c
create mode 100644 file5.c

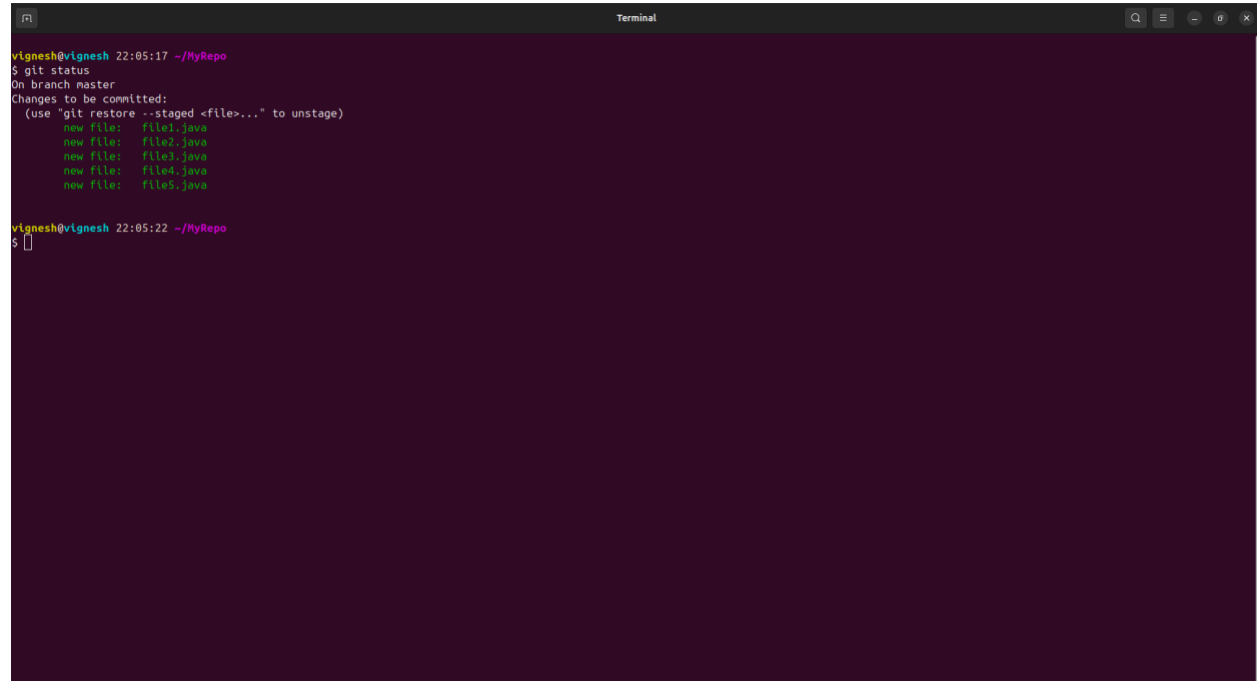
vignesh@vignesh 22:04:02 ~/MyRepo
$
```

10. Add all .java files into the staging area



```
Terminal
vignesh@vignesh 22:04:44 ~/MyRepo
$ git add *.java
vignesh@vignesh 22:04:53 ~/MyRepo
$
```

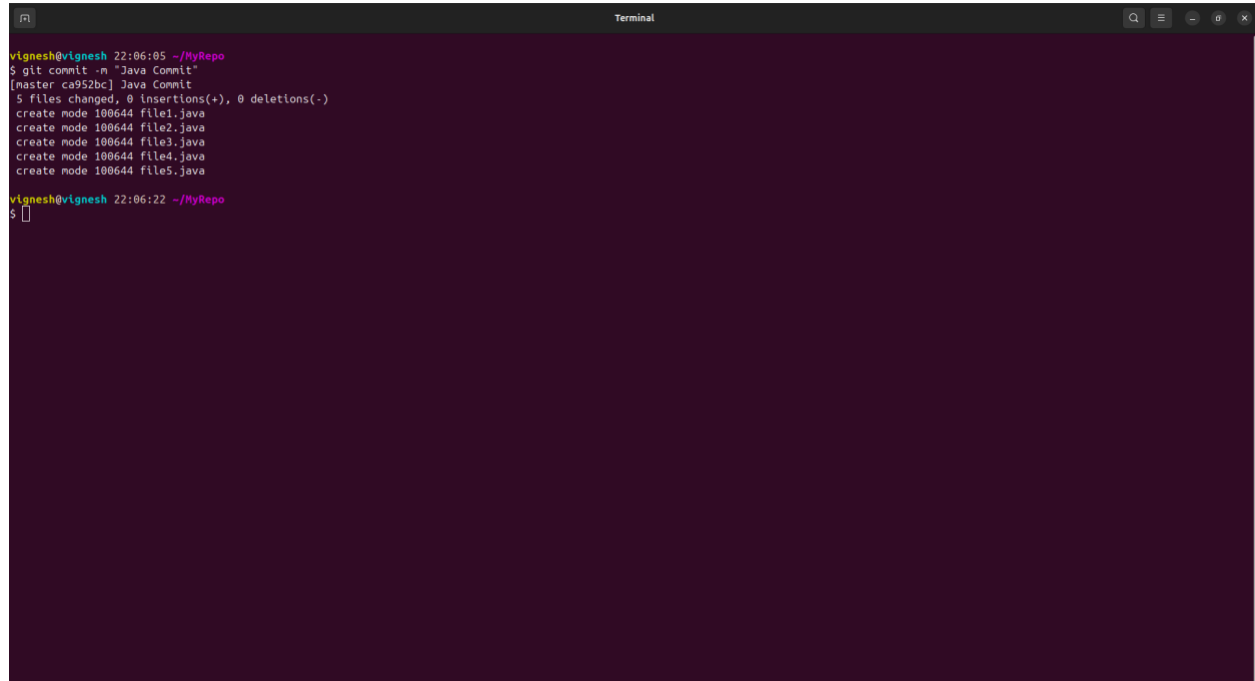
11. verify the git status

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 22:05:17 ~/MyRepo". The command "\$ git status" has been executed. The output shows "On branch master" and "Changes to be committed:" followed by a list of five new files: file1.java, file2.java, file3.java, file4.java, and file5.java. The prompt then changes to "vignesh@vignesh 22:05:22 ~/MyRepo" and the command "\$" is entered, followed by a cursor.

```
vignesh@vignesh 22:05:17 ~/MyRepo
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file1.java
    new file:   file2.java
    new file:   file3.java
    new file:   file4.java
    new file:   file5.java

vignesh@vignesh 22:05:22 ~/MyRepo
$
```

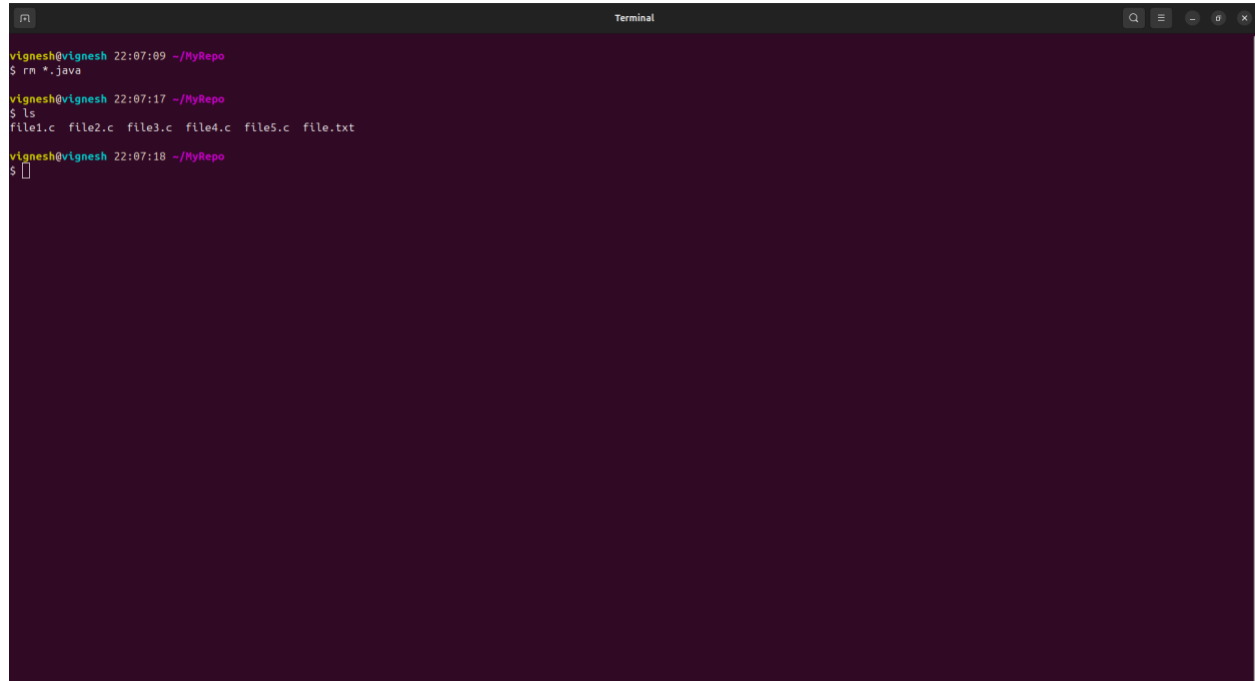
12. Make a commit with the name "Java Commit"

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 22:06:05 ~/MyRepo". The user enters the command "\$ git commit -m 'Java Commit'". The output shows the commit hash "[master ca952bc] Java Commit", the number of files changed ("5 files changed, 0 insertions(+), 0 deletions(-)"), and a list of five new files created: "file1.java", "file2.java", "file3.java", "file4.java", and "file5.java", each with mode "100644". The prompt then changes to "vignesh@vignesh 22:06:22 ~/MyRepo" and the user enters a dollar sign "\$" followed by a cursor.

```
vignesh@vignesh 22:06:05 ~/MyRepo
$ git commit -m "Java Commit"
[master ca952bc] Java Commit
5 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.java
create mode 100644 file2.java
create mode 100644 file3.java
create mode 100644 file4.java
create mode 100644 file5.java

vignesh@vignesh 22:06:22 ~/MyRepo
$
```

13. Delete all .java files from working area



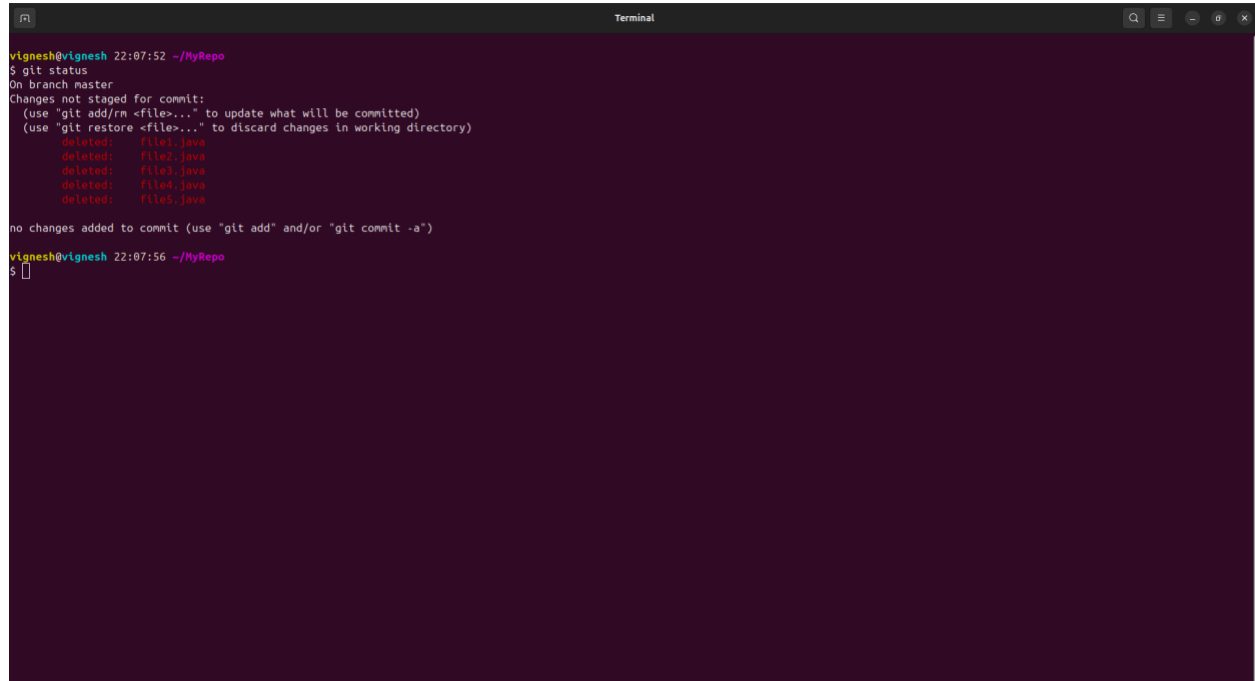
```
vignesh@vignesh 22:07:09 ~/MyRepo
$ rm *.java

vignesh@vignesh 22:07:17 ~/MyRepo
$ ls
file1.c file2.c file3.c file4.c file5.c file.txt

vignesh@vignesh 22:07:18 ~/MyRepo
$
```

The image shows a terminal window with a dark background. The prompt is 'vignesh@vignesh' and the current directory is '~/MyRepo'. The user enters the command 'rm *.java' to delete all Java files. After a brief pause, the user enters 'ls' to list the files. The output shows 'file1.c', 'file2.c', 'file3.c', 'file4.c', 'file5.c', and 'file.txt'. The terminal window has a title bar that says 'Terminal' and standard window controls (minimize, maximize, close) on the right.

14. Now see the status

A terminal window titled "Terminal" with a dark background. The prompt is "vignesh@vignesh 22:07:52 ~/MyRepo". The command "\$ git status" has been executed. The output shows the current branch is "master". It lists "Changes not staged for commit:" with instructions to use "git add/rm" or "git restore". Five files are listed as "deleted": file1.java, file2.java, file3.java, file4.java, and file5.java. It then states "no changes added to commit (use 'git add' and/or 'git commit -a')". The prompt returns to "vignesh@vignesh 22:07:56 ~/MyRepo" followed by a new shell prompt "\$ " and a cursor.

```
vignesh@vignesh 22:07:52 ~/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:    file1.java
        deleted:    file2.java
        deleted:    file3.java
        deleted:    file4.java
        deleted:    file5.java

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

vignesh@vignesh 22:07:56 ~/MyRepo
$ 
```

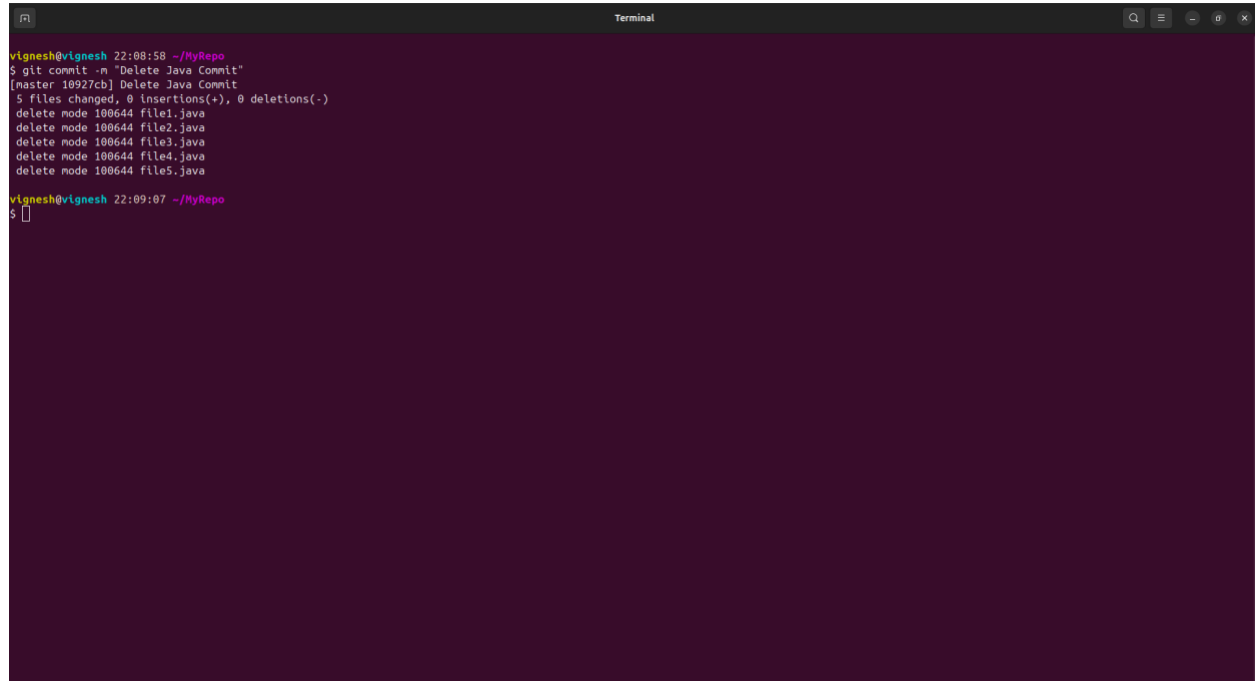
15. add the changes into the staging area

A terminal window titled "Terminal" with a dark background. It shows two lines of text: the first line is the prompt "vignesh@vignesh 22:08:20 ~/MyRepo" followed by the command "\$ git add ."; the second line is the prompt "vignesh@vignesh 22:08:24 ~/MyRepo" followed by a blank line with a cursor.

```
vignesh@vignesh 22:08:20 ~/MyRepo
$ git add .

vignesh@vignesh 22:08:24 ~/MyRepo
$
```

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



```
Terminal
vignesh@vignesh 22:08:58 ~/MyRepo
$ git commit -m "Delete Java Commit"
[master 18927cb] Delete Java Commit
5 files changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 file1.java
delete mode 100644 file2.java
delete mode 100644 file3.java
delete mode 100644 file4.java
delete mode 100644 file5.java

vignesh@vignesh 22:09:07 ~/MyRepo
$
```


17. display all com it details.

```
vignesh@vignesh 22:09:27 ~/MyRepo
$ git log
commit 10927cb78973a82dc9158a99e0c27bd6f310052a (HEAD -> master)
Author: vignesh-wikki <vignsha445@gmail.com>
Date: Thu Jul 11 22:09:07 2024 +0530

    Delete Java Commit

commit ca952bc69e706ede6cc6c637b608de406967430
Author: vignesh-wikki <vignsha445@gmail.com>
Date: Thu Jul 11 22:06:22 2024 +0530

    Java Commit

commit e2bdbcdeda8ea2ae00a7960ed01edb25d345a419
Author: vignesh-wikki <vignsha445@gmail.com>
Date: Thu Jul 11 22:04:02 2024 +0530

    C Commit

commit e62b81965148b431c834600991a4381b25174b97
Author: vignesh-wikki <vignsha445@gmail.com>
Date: Thu Jul 11 21:58:41 2024 +0530

    TXT Commit

vignesh@vignesh 22:09:29 ~/MyRepo
$
```