PRODUCT BASED TRAINING
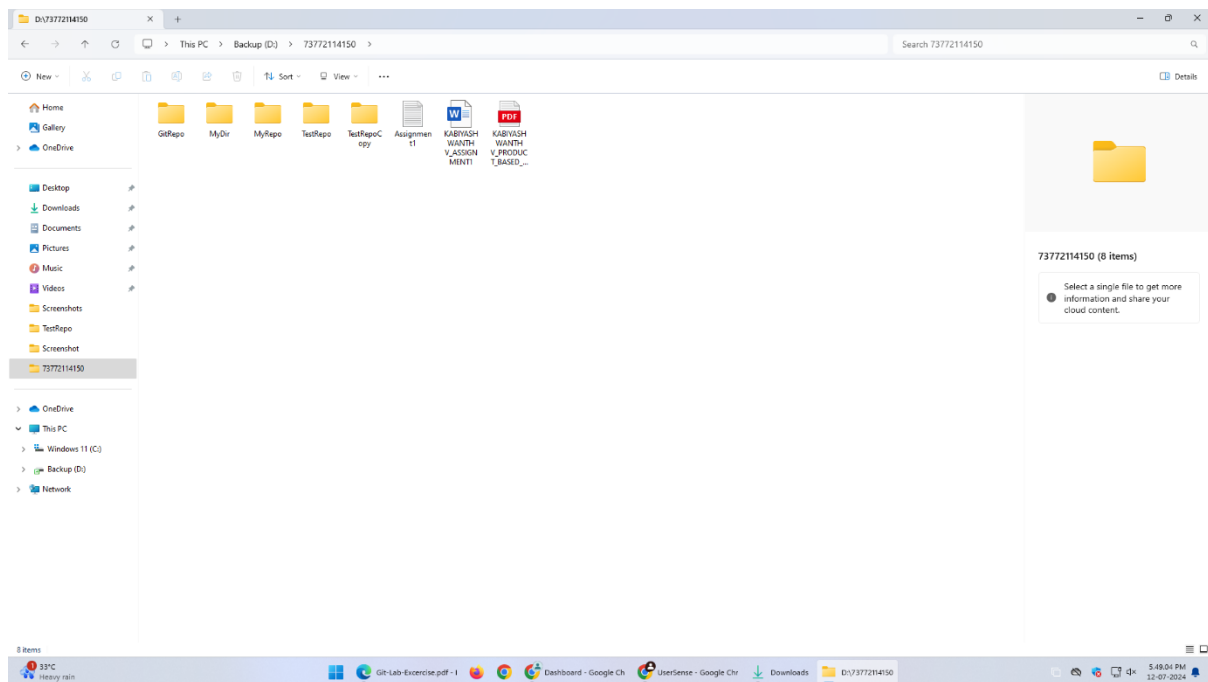
EXERCISE 1

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DEPT   : BE CSE

1.Create a new directory and change into it.

To change the directory


```
C:\Users\User>d:

D:\>cd 73772114150

D:\73772114150>cd MyDir

D:\73772114150\MyDir>
```
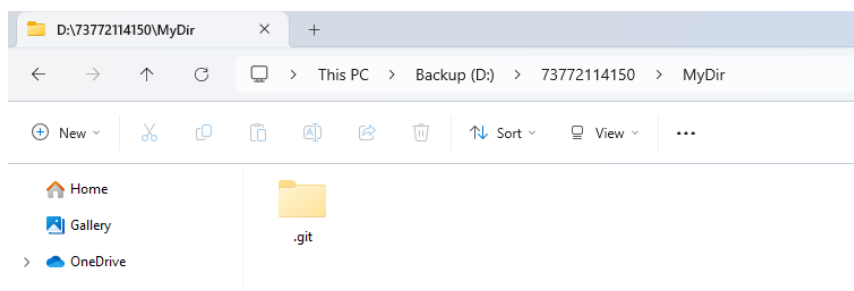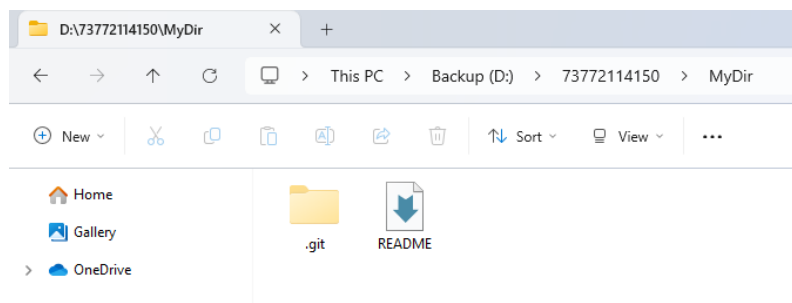
2.To use the init command to create a Git repository in that directory.


```
D:\73772114150\MyDir>git init
Initialized empty Git repository in D:/73772114150/MyDir/.git/
```

3.To observe that there is now a .git directory:

4.To create a README file.

5. Look at the output of the status command the README you created should appear as an untracked file.

```
D:\73772114150\MyDir>git status
On branch master

No commits yet

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

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

6. Use the add command to add the new file to the staging area.

```
D:\73772114150\MyDir>git add README.md
```

To again, look at the output of the status command.

```
D:\73772114150\MyDir>git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   README.md
```
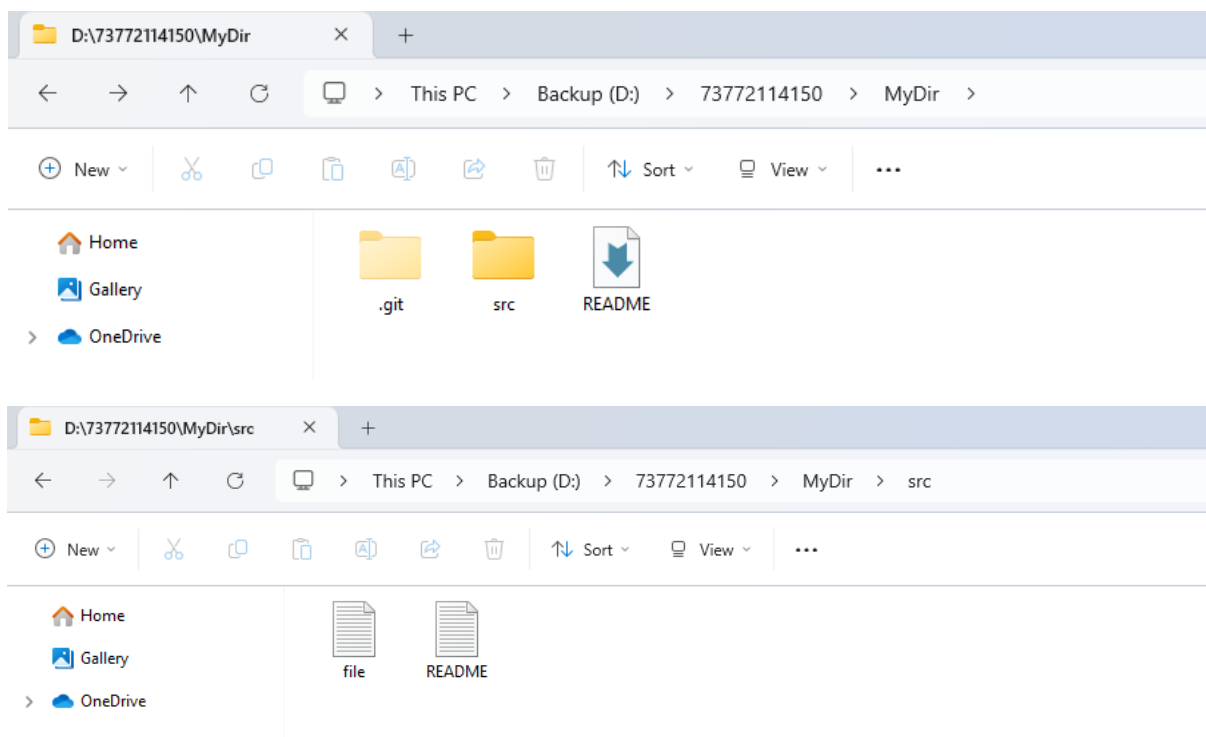
7. Now use the commit command to commit the contents of the staging area.

```
D:\73772114150\MyDir>git commit -m "Readme file is moved"
[master (root-commit) 7c1fe81] Readme file is moved
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
```

8.Create a src directory and add a couple of files to it.

9. Use the add command, but name the directory, not the individual files.

```
D:\73772114150\src>git add .

D:\73772114150\src>
```

Use the status command. See how both files have been staged.

```
D:\73772114150\src>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
```

10. Make a change to one of the files. Use the diff command to view the details of the change.

```
D:\73772114150\src>git diff file1.txt
diff --git a/file1.txt b/file1.txt
index e69de29..b82759e 100644
--- a/file1.txt
+++ b/file1.txt
@@ -0,0 +1 @@
+hi i am Kabi
\ No newline at end of file
```

11. Next, add the changed file, and notice how it moves to the staging area in the status output. Also observe that the diff command you did before using add now gives no output.

```
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:   file1.txt
```

```
D:\73772114150\src>git diff file1.txt
diff --git a/file1.txt b/file1.txt
index b82759e..d808552 100644
--- a/file1.txt
+++ b/file1.txt
@@ -1 +1 @@
-hi i am Kabi
\ No newline at end of file
+hi i am Kabiyashwanth.
\ No newline at end of file
```

12.Use the log command in order to see all of the commits you made so far.

```
D:\73772114150\src>git log
commit 8fc3efdefa28b917b1697148aa8548b3717bcf8b (HEAD -> master)
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 09:31:59 2024 +0530

    files added successfully
```

13.Use the show command to look at an individual commit.

```
D:\73772114150\src>git show
commit 8fc3efdefa28b917b1697148aa8548b3717bcf8b (HEAD -> master)
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Mon Jul 15 09:31:59 2024 +0530

    files added successfully

diff --git a/file1.txt b/file1.txt
new file mode 100644
index 0000000..d808552
--- /dev/null
+++ b/file1.txt
@@ -0,0 +1 @@
+hi i am Kabiyashwanth.
\ No newline at end of file
diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..e69de29
```

14.Make a couple more commits, at least one of which should add an extra file.

```
D:\73772114150\src>git add file3.txt
fatal: pathspec 'file3.txt' did not match any files

D:\73772114150\src>git add file3.txt

D:\73772114150\src>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file3.txt
```

```
D:\73772114150\src>git commit -m "added new file"
[master 272b15c] added new file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file3.txt
```