

Github repo link -> https://github.com/debasish1224/Tutedude_assignments.git

1. Creating and Renaming Files/Directories

```
ubuntu@ip-172-31-32-99:~$ mkdir test_dir
ubuntu@ip-172-31-32-99:~$ cd test_dir/
ubuntu@ip-172-31-32-99:~/test_dir$ touch example.txt
ubuntu@ip-172-31-32-99:~/test_dir$ mv example.txt renamed_example.txt
ubuntu@ip-172-31-32-99:~/test_dir$ ls
renamed_example.txt
ubuntu@ip-172-31-32-99:~/test_dir$ cd ..
ubuntu@ip-172-31-32-99:~$ ls
test_dir
ubuntu@ip-172-31-32-99:~$
```

First created a directory test_dir inside that created a file example.txt the renamed it to renamed_example.txt .

2. Viewing File Contents

```
ubuntu@ip-172-31-32-99:~$ cat etc/passwd.txt
this is just for demo
ubuntu@ip-172-31-32-99:~$ head etc/passwd.txt
this is just for demo
ubuntu@ip-172-31-32-99:~$ tail etc/passwd.txt
this is just for demo
```

First created a folder in main named etc , inside that created a file passwd.txt the used the following commands to perform the task .

3. Searching for Patterns

```
ubuntu@ip-172-31-32-99:~$ grep root etc/passwd.txt
ubuntu@ip-172-31-32-99:~$ echo "root" > etc/passwd.txt
ubuntu@ip-172-31-32-99:~$ cat etc/passwd.txt
root
ubuntu@ip-172-31-32-99:~$ grep root etc/passwd.txt
root
```

First used Grep to see if root is present in etc/passwd.txt it was not present so added root text in passwd.txt then again used grep to find if root is present in passwd.txt then we got the match .

4. Zipping and Unzipping

```
ubuntu@ip-172-31-32-99:~$ ls
etc  test_dir
ubuntu@ip-172-31-32-99:~$ zip -r test_dir.zip test_dir/
  adding: test_dir/ (stored 0%)
  adding: test_dir/renamed_example.txt (stored 0%)
ubuntu@ip-172-31-32-99:~$ ls
etc  test_dir  test_dir.zip
ubuntu@ip-172-31-32-99:~$ mkdir unzipped_dir
ubuntu@ip-172-31-32-99:~$ ls
etc  test_dir  test_dir.zip  unzipped_dir
ubuntu@ip-172-31-32-99:~$ unzip test_dir.zip -d unzipped_dir/
Archive:  test_dir.zip
   creating: unzipped_dir/test_dir/
  extracting: unzipped_dir/test_dir/renamed_example.txt
ubuntu@ip-172-31-32-99:~$ ls
etc  test_dir  test_dir.zip  unzipped_dir
ubuntu@ip-172-31-32-99:~$ cd unzipped_dir/
ubuntu@ip-172-31-32-99:~/unzipped_dir$ ls
test_dir
ubuntu@ip-172-31-32-99:~/unzipped_dir$
```

Zipped the test_dir directory in test_dir.zip after that created a new directory unzipped_dir and unzipped the test_dir.zip into this directory using the -d which means destination in unzip command .

5. Downloading File

```
ubuntu@ip-172-31-32-99:~$ ls
etc test_dir test_dir.zip unzipped_dir
ubuntu@ip-172-31-32-99:~$ wget https://example.com/sample.txt
--2026-02-18 09:58:22-- https://example.com/sample.txt
Resolving example.com (example.com)... 104.18.27.120, 104.18.26.120, 2606:4700::6812:1b78, ...
Connecting to example.com (example.com)|104.18.27.120|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2026-02-18 09:58:22 ERROR 404: Not Found.
```

Used wget command with the given url .

6. Changing Permissions

```
ubuntu@ip-172-31-32-99:~$ touch secure.txt
ubuntu@ip-172-31-32-99:~$ ls
etc secure.txt test_dir test_dir.zip unzipped_dir
ubuntu@ip-172-31-32-99:~$ ls -l secure.txt
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb 18 10:00 secure.txt
ubuntu@ip-172-31-32-99:~$ chmod 444 secure.txt
ubuntu@ip-172-31-32-99:~$ ls -l secure.txt
-r--r--r-- 1 ubuntu ubuntu 0 Feb 18 10:00 secure.txt
ubuntu@ip-172-31-32-99:~$
```

First created a file secure.txt . Then checked the permissions using ls -l and saw that Owner can read/write , group can read/write , other users can only read so changed that To read only for all using chmod 444 that means everyone will read now . checked that After giving the permission and we can see its read only file now .

7. Working with Environment Variables

```
ubuntu@ip-172-31-32-99:/$ export MY_VAR="Hello, Linux!"
ubuntu@ip-172-31-32-99:/$ echo $MY_VAR
Hello, Linux!
ubuntu@ip-172-31-32-99:/$ printenv MY_VAR
Hello, Linux!
ubuntu@ip-172-31-32-99:/$
```

First i set the environment variable then checked it using two commands echo and Printenv .