After you have logged into the system, do the following.

1.Invoke **pwd** to see your current working directory (there should be your home directory).

```
haviras@ubuntu1804:~$ pwd
/home/haviras
```

2. Collect output of these commands

ls -l /   - Output directory root / as table (long format)

ls   - Output current directory as list

ls ~   - Output home directory as list

ls -l   - Output home directory as table

ls -a   - Output home directory as list with hidden entries

ls -la   - Output current directory as table with hidden entries

ls -lda ~   - Output home directory properties as table without their contents with hidden entries

Note differences between produced outputs. Describe (in few words) purposes of these commands.

3. Execute and describe the following commands (store the output, if any):

mkdir test – making a directory **test** in current directory

cd test - go to the test folder

pwd - Print the name of the current working directory.

```
haviras@ubuntu1804:~/test$ pwd
/home/haviras/test
```

touch test.txt – make a test.txt file

ls -l test.txt – output properties of test.txt

```
haviras@ubuntu1804:~/test$ ls -l test.txt
-rw-rw-r-- 1 haviras haviras 0 Apr 12 16:29 test.txt
```

mkdir test2 – making a directory **test2** in current directory

mv test.txt test2 – moving file **test.txt** to **test2** directory

cd test2 – change directory to **test2**

ls – output content of current directory (In my case test2)

```
haviras@ubuntu1804:~/test/test2$ ls
test.txt
```

mv test.txt test2.txt – rename file **test.txt** to **test2.txt**

ls

```
haviras@ubuntu1804:~/test/test2$ ls
test2.txt
```

cp test2.txt .. – copy **test2.txt** to level up directory

cd ..

ls

```
haviras@ubuntu1804:~/test/test2$ ls
test2.txt
```

rm test2.txt – remove **test2.txt**

rmdir test2 – remove **test2** directory

```
haviras@ubuntu1804:~/test/test2$ cd ..
haviras@ubuntu1804:~/test$ rmdir test2
haviras@ubuntu1804:~/test$ ls
test2.txt
```

4. Execute and describe the difference

cat /etc/fstab – output content to output console as text

less /etc/fstab – output content to output console as page view, you can use up and down arrows to view file

more /etc/fstab – output content to output console as page view, but you can use only down arrow to view file

5. Add to archive all 'test' directories.

    a. to the pure 'tar';

```
root@ubuntu1804:~# tar -cf test3.tar test/ test1.txt
root@ubuntu1804:~# ls
docker                      shared         test3.tar     v
dockr                       sonatype-work  ubuntu.tar    withmc.yaml
nexus-3.16.1-02             test           ubuntu2
nexus-3.16.1-02-unix.tar.gz test1.txt      ubuntu3.tar
```

    b. to the zipped 'tar' with only tar command;

```
root@ubuntu1804:~# tar -zcf test4.tar test/ test1.txt
root@ubuntu1804:~# ls
docker                      shared         test3.tar    ubuntu3.tar
dockr                       sonatype-work  test4.tar    v
nexus-3.16.1-02             test           ubuntu.tar   withmc.yaml
nexus-3.16.1-02-unix.tar.gz test1.txt      ubuntu2
```

    c. to the zipped 'tar' with gzip command;

```
root@ubuntu1804:~# gzip test3.tar
root@ubuntu1804:~# ls
docker                      shared         test3.tar.gz  v
dockr                       sonatype-work  ubuntu.tar    withmc.yaml
nexus-3.16.1-02             test           ubuntu2
nexus-3.16.1-02-unix.tar.gz test1.txt      ubuntu3.tar
```

extract from archives all above.

```
root@ubuntu1804:~# ls
docker                         shared          ubuntu.tar    withmc.yaml
dockr                          sonatype-work   ubuntu2
nexus-3.16.1-02                test3.tar.gz    ubuntu3.tar
nexus-3.16.1-02-unix.tar.gz    test4.tar       v
root@ubuntu1804:~# tar -xvf test3.tar.gz
test/
test/test2.txt
test1.txt
root@ubuntu1804:~# ls
docker                         shared          test3.tar.gz  ubuntu3.tar
dockr                          sonatype-work   test4.tar     v
nexus-3.16.1-02                test            ubuntu.tar    withmc.yaml
nexus-3.16.1-02-unix.tar.gz    test1.txt       ubuntu2
```

5. Look through man pages of the listed above commands.