Module 4 Linux Essentials TASK 4.3

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).
- 2. Collect output of these commands
- **Is** -I / show catalog "-I" long listing format "/" root directory of file system
- **Is** show catalog in current directory
- **Is** ~ show catalog "~" home directory
- **Is** -l show catalog "-l" long listing in current directory
- **Is** -a show catalog "-a" or "—all" do not ignore entries starting with in current directory
- **Is** -la show catalog "-l" long listing format "-a" or "—all" do not ignore entries starting with in current directory
- **Is** -lda ~ show catalog "-l" long listing format "-d" or "—directory" list directories themselves, not their contents "-a" or "—all" do not ignore entries starting with in current directory

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 - create directory test

cd test - go to directory test

pwd - print working directory

touch test.txt - create file test.txt

Is -l test.txt - show catalog "-l" long listing format "test.txt" destination file name **mkdir** test2 - create directory test2

mv test.txt test2 - move file test.txt to directory test2 destroy original - cut) cd test2 - go to directory test2

Is - show catalog

mv test.txt test2.txt - move file test.txt to file test2.txt (destroy original - cut)

ls - show catalogcp test2.txt .. - copy test2.txt to the directory one level above the current working

cd .. - go to the directory one level above the current working directory

Is - show catalog

directory (save original)

rm test2.txt - delete file test2.txt

rmdir test2 - delete directory test2

```
[ec2-user@ip-172-31-38-56 ~]$ mkdir test
[ec2-user@ip-172-31-38-56 ~]$ cd test
[ec2-user@ip-172-31-38-56 test]$ pwd
[ec2-user@ip-172-31-38-56 test]$ touch test.txt
[ec2-user@ip-172-31-38-56 test]$ ls -l test.txt
[ec2-user@ip-172-31-38-56 test]$ mkdir test2
[ec2-user@ip-172-31-38-56 test]$ mv test.txt test2
[ec2-user@ip-172-31-38-56 test]$ cd test2/
[ec2-user@ip-172-31-38-56 test2]$ ls
[ec2-user@ip-172-31-38-56 test2]$ mv test.txt test2.txt
[ec2-user@ip-172-31-38-56 test2]$ ls
[ec2-user@ip-172-31-38-56 test2]$ cp test2.txt ..
[ec2-user@ip-172-31-38-56 test2]$ cd ...
[ec2-user@ip-172-31-38-56 test]$ ls
[ec2-user@ip-172-31-38-56 test]$ rm test2
[ec2-user@ip-172-31-38-56 test]$ rm test2.txt
rmdir: failed to remove 'test2/': Directory not empty
[ec2-user@ip-172-31-38-56 test]$ rm test2/test2.txt
[ec2-user@ip-172-31-38-56 test]$ rmdir test2/
[ec2-user@ip-172-31-38-56 test]$ ls
ec2-user@ip-172-31-38-56 test]$
```

4. Execute and describe the differencecat /etc/fstab — displays file contents in fine in command line out

```
[ec2-user@ip-172-31-38-56 test]$ cat /etc/fstab
#
UUID=55da5202-8008-43e8-8ade-2572319d9185 / xfs defaults, noatime 1 1
```

less /etc/fstab — displays file contents or command output one page at a time in your terminal

```
#
UUID=55da5202-8008-43e8-8ade-2572319d9185 / xfs defaults,noatime 1 1
/etc/fstab (END)
```

more /etc/fstab —displays text files in the command prompt, displaying one screen at a time in case the file is large

```
[ec2-user@ip-172-31-38-56 test]$ more /etc/fstab
#
UUID=55da5202-8008-43e8-8ade-2572319d9185 / xfs defaults,noatime 1 1
[ec2-user@ip-172-31-38-56 test]$
```

- 5. Add to archive all 'test' directories.
 - a. to the pure 'tar';
 - b. to the zipped 'tar' with only tar command;
 - c. to the zipped 'tar' with gzip command;

extract from archives all above.

```
[ec2-user@ip-172-31-38-56 ~]$ tar -czf testzip.tar test/
[ec2-user@ip-172-31-38-56 ~]$ ls
test testzip.tar
[ec2-user@ip-172-31-38-56 ~]$ rm testzip.tar
[ec2-user@ip-172-31-38-56 ~]$ ls
[ec2-user@ip-172-31-38-56 ~]$ tar -cf test1.tar test/
[ec2-user@ip-172-31-38-56 ~]$ ls
test test1.tar
[ec2-user@ip-172-31-38-56 ~]$ tar -czf testzip.tar test/
[ec2-user@ip-172-31-38-56 ~]$ ls
test test1.tar testzip.tar
[ec2-user@ip-172-31-38-56 ~]$ gzip
.bash_history .bash_profile .cache/
                                           .local/
                                                         test/
                                                                         testzip.tar
.bash_logout .bashrc
                            .config/
                                                          test1.tar
[ec2-user@ip-172-31-38-56 ~]$ gzip test/
gzip: test/ is a directory -- ignored
[ec2-user@ip-172-31-38-56 ~]$ tar -czf teszip.tar.gz test
        test1.tar testzip.tar
[ec2-user@ip-172-31-38-56 ~]$ tar -czf teszip.tar.gz test/
[ec2-user@ip-172-31-38-56 ~]$ ls
test test1.tar testzip.tar teszip.tar.gz
[ec2-user@ip-172-31-38-56 ~]$ gunzip teszip.tar.gz
[ec2-user@ip-172-31-38-56 ~]$ ls
test test1.tar testzip.tar teszip.tar
[ec2-user@ip-172-31-38-56 ~]$ tar xf test
test/ test1.tar testzip.tar
[ec2-user@ip-172-31-38-56 ~]$ tar xf test1.tar
[ec2-user@ip-172-31-38-56 ~]$ ls
test test1.tar testzip.tar teszip.tar
```

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