**Linux** : Operating System

Terminal Commands -

**pwd** - Print Working Directory – pwd

**ls** - Lists files and directories in the current directory

eg: Documents, Music, Downloads, Pictures

**cd** - Change Directory

eg : cd Documents

**mkdir** – Creat Directory

**rmdir** – Remove Directory only if directories are empty

**rm -r**  - Remove Directory even if directory is not empty or contain files/data in it

**touch** – Creat File

eg : touch example.txt

**nano** – Modify or write on file

eg : nano example.txt

**vi** – open the file

eg : vi sample.txt

type something then press ESC

cwq –- press enter (you have saved file)

**cp** – copy one file’s data into another

eg: cp sample.txt sample2.txt

copy file to folder : cp -r sample.txt hello

**mv** – rename the file

mv sample.txt sample22.txt

**Task -**

**Navigation and Directories**

**1. Navigating to Root and Home Directories**:

• How do you navigate to the root directory from any location in the filesystem?

**Answer *:*** *open cmd terminat and run command* ***cd***

• What command would you use to go to your home directory from anywhere in the filesystem?

**Answer *:*** *Both* ***cd ~*** *and* ***cd***

**2. Creating and Navigating Directories:**

• Create a directory named testdir in your home directory. How would you do this?

**Answer *:*** We can Nevigate to home with command ***cd*** and then run command

***mkdir testdir*** or we can create directly from any location by this command :

***mkdir ~/testdir***

• How can you change into the testdir directory you just created?

**Answer *:*** We can Nevigate to home with command ***cd*** and then run command

***cd testdir*** or we can do directly by this command : cd ***~/testdir***

**3. Displaying Current Directory:**

• Which command will show you the current directory you are in?

**Answer :** pwd

**File Operations**

**4. Creating Files:**

• How do you create a new, empty file named example.txt in the testdir directory?

**Answer :** **touch ~/testdir/example.txt** or Navigate to testdir and then run **touch example.txt**

**5. Copying Files:**

• How can you copy the file example.txt to a new file named example\_copy.txt within the same directory?

**Answer :** cp example.txt example\_copy.txt

• If you wanted to copy example.txt to another directory, say /tmp, what command would you use?

**Answer :** cp example.txt /tmp/

**6. Moving and Renaming Files:**

• How would you move example\_copy.txt to the parent directory of testdir?

**Answer :** navigate to testdir and run **mv example\_copy.txt ../**

• How can you rename example.txt to renamed\_example.txt?

**Answer :** mv example.txt renamed\_example.txt

**7. Removing Files:**

• What command would you use to delete renamed\_example.txt?

**Answer :** rm renamed\_example.txt

• How would you delete a directory named old\_dir and all its contents?

**Answer :** rm -r old\_dir