

## **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 terminal 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 Navigate 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 Navigate 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