LAB ASSIGNMENT-1

Subject: Operating system concepts using Unix/Linux

## 1.Display a list of currently logged-in users.

- Who -a
- Output
  System boot 2025-02-20 08:10
  Run-level5     2025-02-20 08:10
  Student + tty2 2025-02-20 08:10 old2187(tty2)

## 2. Display only the usernames and the total number of logged in users.

- Who -q -H
- Output
  Student
  #users=1

## 3. Check your current user by running and logout from session.

- Whoami
- Output
  student

## 4. Change your password and check your own identity.

- Passwd
- (current) unix password:Navdip

- Enter your unix password:abcd
- Retype new unix password:abcd
- Output
  Passwd :password updated successfully

## 5. Display detailed system information.

- Uname -a
- Output
  Linux tnrao-H510M-H  6.8.0-52-generic #53~22.04.1-
  Ubuntu SMP PREEMPT_DYNAMIC  Wed Jan 15 19:18:46
  UTC 2 X86_64 X86_64 X86_64 GNU/Linux

## 6. Find out which kernel version and system architecture your system is running.

- Uname -v

- Output

  #53~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC  Wed Jan
  15 19:18:46 UTC 2

## 7. Create a directory test_dir and inside it, move into test_dir and create 3 empty files: file1.txt, file2.txt, file3.txt into test_dir.

- Create directory

  Mkdir test_dir

- Navigate into test_dir

  Cd test_dir
- Create three empty files

Touch file1.txt file2.txt file3.txt

- Verify the files

  Ls

  - ❖ Output

    file1.txt file2.txt file3.txt

## 8. Change the permissions of file1.txt to read-only for everyone.

- Read only permission

  Chmod 444 file1.txt
- Verify the change

  Ls -l file1.txt
  - ❖ Output

    -r--r--r--1 student student 0 feb 20 09:02 file1.txt

## 9. List all files with their details

Ls -l

- ❖ Output

  -r--r--r--1 student student 0 feb 20 09:02 file1.txt

  -rw-rw-r--1 student student 0 feb 20 09:02 file2.txt

  -rw-rw-r--1 student student 0 feb 20 09:02 file3.txt

**10. Display content of file1.txt, file2.txt and file3.txt with numbers.**

Cat -n file1.txt  file2.txt file3.txt

❖ Output
   1 hello world
   2 how are you
   3
   4 good morning

**11. Rename file1.txt to myfile.txt**

Mv file1.txt myfile.txt

- Verify the rename
  Ls

❖ Output
   File2.txt  file3.txt  myfile.txt

**12. Delete directory test_dir with its files and sub directories and go back to home directory.**

Rm -r test_dir