

# School Of Engineering

# Linux Programming Assignment-2

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Section: B (CyberSecurity)

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## Q1. What does the command pwd, whoami, and hostname display?

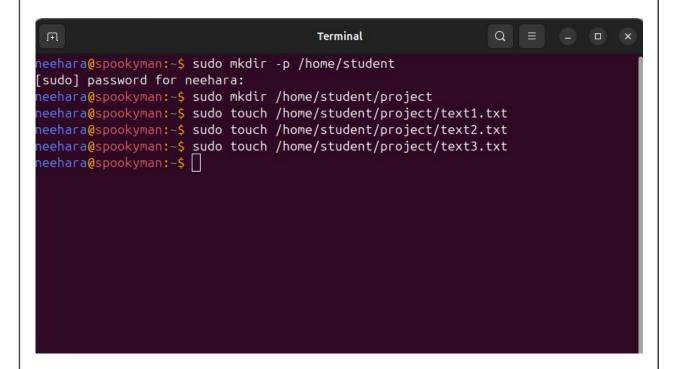
Ans: pwd - Print Working Directory: Displays the current directory path you're in.

whoami - Displays the username of the current logged-in user.

hostname - Displays the name of the computer/system you're working on.

Q2. Write the command to create a directory named "project" inside the /home/student folder and keep three .txt file into it. Give output snapshot.

Ans:



# Q3. Explain the difference between absolute path and relative path with proper examples.

**Ans: Absolute path:** It is the complete location of a file or directory from the root of the file system. It provides the full path to the target.

**Example:** cat /home/user/file1.txt

Relative path: the location relative to the current working directory. It doesn't start from the

root.

**Example:** If the current directory is home then: cat user/file1.txt.

# Q4. What command will give you the already executed command traces in the terminal. Give output snapshot.

**Ans:** The command **history** will give you the already executed command traces in the terminal.

```
neehara@spookyman:~$ history
   1 clear
   2 sudo apt upgrade
   3 sudo apt install tasksel
   4 sudo reboot now
   5 gedit Functiondemo.sh
   6 sudo snap install gedit #version 46.1-3
   7 sudo apt install bash
   8 gedit func.sh
   9 sudo apt install gedit # version 48.1
  10 gedit func.sh
  11
      cal
  12
      sudo apt install ncal
  13
      cal
  14 man
  15 manual
  16
      -5
      sudo timedetect1 set-time "03:47:00"
  17
  18
  19
      ls
  20 pwd
  21 cd
  22 mkdir
     sudo -i
  23
  24
     dirb
  25
      cd
  26
      rmdir
  27
      ΓM
  28 cp
  29
     ΜV
  30
      gedit spookyman
  31 CHMOD 755 FILENAME
```

# Q5. Compare the working functionality of find and locate command. Which one is faster and why?

**Ans: locate:** It is faster than find because it searches a pre-built database instead of scanning your file system live.

**find:** It is slower than locate because it searches your entire file system in real-time rather than using a pre-built database.

## Q6. Which command is used to modify file permissions in Linux? Give an example.

**Ans:** The command used to modify file permissions in Linux is chmod (change mode). It allows you to alter the read (r), write (w), and execute (x) permissions for the file's owner, group, and others.

**Example:** chmod u+rw myfile.txt

u+rw means Give yourself read+write.

## Q7. A file has permissions -rw -r- -r- -. What does this mean?

**Ans:** The file is a regular file, not a directory. The owner of the file can read it and write to it, but cannot execute it as a program. It can only read the file, but cannot modify it or execute it. All other users can only read the file, but cannot modify it or execute it.

# Q8. Explain the difference between chown and chgrp with an example?

#### Ans:

#### chown:

- It means Change Of Owner of a file.
- It can change both Owner and Group.

### chgrp:

- It means Change Of Group of a file.
- It can only change **Group.**

# Q9. A file needs to be accessible by multiple users but only writable by the owner. How will you set permissions?

**Ans:** The command for a file that need to be accessible by multiple users but only writable by the owner is:

chmod u=rw,go=r filename

u=rw means "set the owner's permissions to read and write" go=r means "set the group's and others' permissions to read only"

## Q10. How do you check the manual page for any Linux commands?

**Ans:** To check the manual page for any linux commands we use: syntax: man <command\_name>

## THANK YOU