

Assignment 1

1. Execute the following UNIX command

- i. `echo` ii. `printf` iii. `who` iv. `ln`
v. `who` vi. `date` vii. `passwd` viii. `cal`

2. Execute the following Directory commands

- i. `pwd` ii. `cd` iii. `mkdir` iv. `rmdir`

3. Execute the following File handling commands

- i. `cat` ii. `cp` iii. `rm` iv. `mv` v. `cmp`

4. Explain with a command execution Relative and Absolute permissions.

5. . Execute the following Network Commands

- i. `telnet` ii. `ps` iii. `du` iv. `find` v. `tar`

Assignment 2

1.Explain the following Simple Filters:

- i. `head` ii. `tail` iii. `cut` iv. `sort` v. `grep` vi. `egrep`

2. Write a shell script program to read the file line by line using loop.

3. Write a shell script program to check the existence of a file or not.

4. Write a shell script program to create a Directory by checking the existence.

5. Write a shell script program to handle the positional parameters.

Assignment 3

- 1. Implement C /C++ Program to create a Directory File APIs.**
- 2. Implement C /C++ Program to create FIFO File APIs.**
- 3. Implement C /C++ Program to perform a locking mechanism for a File.**
- 4. Explain the following APIs.**

i.signal Mask ii.kill iii.Alaram

Assignment 4

- 1. Expalin the following functions with an Examples.**

i.setjmp & longjmp ii.setrlimit & getrlimit

- 2. Expalin the following functions with an Examples.**

i.fork() ii.vfork() iii.Zombie iv.Race Condition v. exec()

- 3. Expalin the following functions with an Examples**

i.wait() ii.waitpid iii. Wait3() & wait4()

Assignment 5

- 1. Explain Pipes with neat diagram.*
- 2.Explain popen & pclose functions.*
- 3.Explain briefly FIFOs in IPC.*
- 4. Explain briefly how Socket communication takes place between client and server with neat diagram.*