

- Display calendar for current month.

cal

- Define real time operating system. List any four application of it.

A real-time operating system (RTOS) is a software component that manages system resources, schedules tasks and ensures that tasks are completed within a predictable time frame.

- Application,

- 1) Industrial Automation.
- 2) Medical Device.
- 3) Aerospace and defense.
- 4) Automotive Systems.
- 5) Telecommunications.
- 6) Consumer electronics.
- 7) Transportation System.
- 8) Power and Energy systems.

- Display date and time of 2 year ago.

bash

date -d "2 years ago".

- Display date and time of previous day & tomorrow.

date -d "1 day ago"

date -d "1 day"

- Explain any four services provided by os.
- Display system date and time. clear the System Screen.

Ans \$ date

\$ clear.

- Display name of terminal.

Ans \$ tty

- Write command to give manual help for any command.

Ans \$ man ls

\$ ls --help

- To display month 4 april 2023.

\$ cal 4 2023

- To display hours minutes and seconds.

\$ date + "%H;%M:%S"

- To display who are the users connected to our computer currently.

\$ who.

- To display present working directory.

\$ pwd.

- To start stop restart the services.

\$ sudo systemctl start apache2

\$ sudo systemctl stop apache2

\$ sudo systemctl restart apache2

- To display process information

\$ ps -aux. / \$ ps.

- To listing all process running on the terminal.

\$ ps -ef. / \$ ps -aux

- Write command to change directory.

\$ cd c:\Users\SPM\Documents

- Write command to change make directory

\$ cd

\$ mkdir Sample

\$ mkdir Sample1 Sample2

- Create file write content of that file and to display content of that file.

\$ touch Example.txt

\$ echo "My name is Tina" >> Example.txt

\$ cat Example.txt

- Write command to Remove file and remove directory.

\$ rm Example.txt

\$ rmdir Sample.txt

- Write command to split large file.

\$ split -b 10M Example.txt part-

- Write command to rename a file name

\$ mv Example.txt Demo.txt.

- Write a command to copy the content from one file to another file

\$ cp Example.txt Demo.txt.

- Write a command to assign the execute permission for user.

\$ chmod u+x filename.

\$ chmod u+x Example.txt.

- Write a command to assign all permission for group.

\$ chmod 770 Example.txt.

- Write command to remove the permission for user.

\$ chmod u-rwx Example.txt.

- Write command in vi editor to print start the vi editor and display cal & date.

\$ vi Example.txt

:!cal
:!date

OR

vi

:!cal & & date

:q

- Execute shell script by considering example to find passing grades of students using IF statements.

vi grade-check.sh

echo "Enter the student's grade:"

read grade

if ["\$grade" -ge 50]; then

echo "The student has passed."

else

echo "The student has failed"

fi

chmod +x grade-check.sh

./grade-check.sh

output

Enter the student's grade 75

The student has passed.