*Unix project*

**TITLE** : Process Management And Memory Management

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**PROBLEM STATEMENT** :

The purpose of making these menu driven program is that if the user has to perform process related operation consequently such as killing all process,to stop a process,to know the processes that are running ,etc. the user waste's its precious time to open and close terminal again and again so , in order to overcome these issue and to save time we have written a program.

**OS REQUIRED** : Ubuntu 18.04.2 LTS

**SOURCE CODE** :

#!\bin\bash

#!\bin\sh

#!\bin\csh

kil\_1(){

ps -e;

kil\_2;

}

kil\_2(){

echo "enter pid to kill"

read $pi

kill -9 $pi;

}

echo "Select choice"

echo "1.Process management"

echo "2.Memory management"

echo "Enter your choice : "

read ch1

case $ch1 in

1) echo "enetering process management"

echo "1.List running Processes"

echo "2.Show all processes of user"

echo "3.Show detailed info about all processes"

echo "4.Show detailed info about running processes"

echo "5.Show processes using most of CPU"

echo "6.To kill a process"

echo "7.To kill all processes"

echo "Enter your choice : "

read a1

case $a1 in

1)ps;;

2)ps aux;;

3)ps afx;;

4)ps -f;;

5)top;;

6)echo "Enter PID of process to be killed ":

read a

kill -9 "$a";;

7)killall process ;;

esac;;

2) echo "entering memory managment"

echo "1. Display Memory Usage"

echo "2. Display all memory usage in MBs"

echo "3. Display memory usage stat"

echo "4. show processes using most of CPU"

echo "5. show user using most of CPU"

echo "6. Display amount of disk space used"

echo "7. Show amount of avaliable disk space used by specified

files and directories"

echo "Enter your choice : "

read a2

case $a2 in

1)free command;;

2)free -m;;

3)vmstat ;;

4)top;;

5)htop;;

6)df;;

7)du;;

esac

esac

**OUTPUT** :









