

# **LINUX AND SHELL PROGRAMMING - LAB**

**(Course Code: 23UPCSC1L01)**

**A laboratory record submitted to Periyar University, Salem**

**In partial fulfillment of the requirements for the degree of**

**MASTER OF COMPUTER APPLICATIONS**

**By**

**NAGARAJAN S**

**[Reg. No: U24PG507CAP016]**



**DEPARTMENT OF COMPUTER SCIENCE**

**PERIYAR UNIVERSITY**

**(NACC `A++` Grade with CGPA 3.61) – NIRF RANK 56 – ARIIA RANK 10**

**PERIYAR PALKALAI NAGAR,**

**SALEM – 636 011.**

**(OCTOBER - 2024)**

## CERTIFICATE

This is to certify that the Programming Laboratory entitled “**LINUX AND SHELL PROGRAMMING LAB (23UPCSC1L01)**” is a bonafide record work done by Mr. /Ms. \_\_\_\_\_ Register No: \_\_\_\_\_ as partial fulfillment of the requirements for the degree of Master of Computer Applications, in the Department of Computer Science, Periyar University, Salem, during the Academic Year 2024-2025.

Staff In-charge

Head of the Department

Submitted for the practical examination held on.....

Internal Examiner

External Examiner

## **SOURCE CODE**

```
echo "Enter the Date1 (YYYY-MM-DD):"
read date1
echo "Enter the Date2 (YYYY-MM-DD):"
read date2
datetosec1=$(date -d "$date1" +%s)
datetosec2=$(date -d "$date2" +%s)
diffsec=$((datetosec2-datetosec1))
diffdays=$((diffsec/86400))
echo "Number of Day between '$date1' and '$date2' is : $diffdays days"
```

## OUTPUT

```
ubuntu@ubuntu:~$ sh program1.sh
Enter the Date 1(YYYY-MM-DD):
2024-03-11
Enter the Date 2(YYYY-MM-DD):
2024-03-23
Number of Days Between 2024-03-11 and 2024-03-23 : 12
```

## **SOURCE CODE**

```
echo "Enter the Base IP Address (e.g 192.168.1):"
read base_ip
echo "Enter the start of the IP range:"
read start_ip
echo "Enter the end of the IP range:"
read end_ip

if [ -z "$base_ip" ] || [ -z "$start_ip" ] || [ -z "$end_ip" ]
then
echo "Invalid IP Address,Please enter valid IP and range"
exit 1
fi

for ip in $(seq $start_ip $end_ip )
do
current_ip="$base_ip.$ip"
ping -c 1 -w 1 "$current_ip" &> /dev/null
if [ $? -eq 0 ]
then
echo "IP $current_ip is online"
else
echo "IP $current_ip is offline"
fi
done
```

## OUTPUT

```
ubuntu@ubuntu:~$ sh program2.sh
Enter the Base IP Address (e.g 192.168.1):
192.168.1
Enter the start of the IP range:
1
Enter the end of the IP range:
7
IP 192.168.1.1 is online
IP 192.168.1.2 is online
IP 192.168.1.3 is online
IP 192.168.1.4 is online
IP 192.168.1.5 is online
IP 192.168.1.6 is online
PING 192.168.1.2 (192.168.1.2) 56(84) bytes of data.
PING 192.168.1.4 (192.168.1.4) 56(84) bytes of data.
PING 192.168.1.3 (192.168.1.3) 56(84) bytes of data.
PING 192.168.1.6 (192.168.1.6) 56(84) bytes of data.
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.
IP 192.168.1.7 is online
ubuntu@ubuntu:~$ PING 192.168.1.5 (192.168.1.5) 56(84) bytes of data.
PING 192.168.1.7 (192.168.1.7) 56(84) bytes of data.

--- 192.168.1.1 ping statistics ---
1 packets transmitted, 0 received, 100% packet loss, time 0ms
```

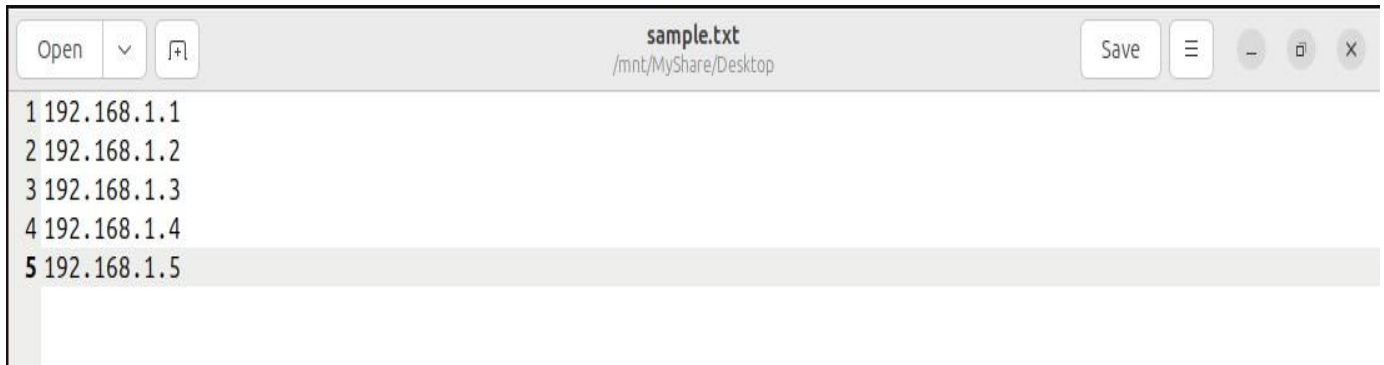
## **SOURCE CODE**

```
echo "Enter the filename contains IP Address:"
read filename
if [ ! -f "$filename" ]
then
echo "File not Found, PLease enter valid Filename"
exit 1
fi

while IFS= read -r ip
do
if [ -n "$ip" ]
then
ping -c 1 -w 1 "$ip" &> /dev/null
if [ $? -eq 0 ]
then
echo "IP $ip is online"
else
echo "IP $ip is offline"
fi
fi
done <"$filename"
```

## OUTPUT

### ➤ Sample.txt file



```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ gedit program3.sh
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh program3.sh
Enter the filename contains IP Address:
sample.txt
IP 192.168.1.1 is online
IP 192.168.1.2 is online
IP 192.168.1.3 is online
IP 192.168.1.4 is online
IP 192.168.1.5 is online
ubuntu@ubuntu:/mnt/MyShare/Desktop$ PING 192.168.1.1 (192.168.1.1) 56(84) bytes
of data.
PING 192.168.1.4 (192.168.1.4) 56(84) bytes of data.
PING 192.168.1.3 (192.168.1.3) 56(84) bytes of data.
PING 192.168.1.2 (192.168.1.2) 56(84) bytes of data.
PING 192.168.1.5 (192.168.1.5) 56(84) bytes of data.
```



## **SOURCE CODE**

```
#!/bin/bash

trap "echo 'Signal caught! Exiting...'; exit" SIGINT

echo "This is a demonstration of script control commands."

echo "Enter a number (negative to exit the script):"
read num

if [ $num -lt 0 ]; then
    echo "You entered a negative number. Exiting..."
    exit 1
fi

echo "For loop demonstration with 'continue':"
for i in 1 2 3 4 5
do
    if [ $i -eq 3 ]; then
        echo "Skipping iteration $i using continue..."
        continue
    fi
    echo "Iteration $i"
done

echo "While loop demonstration with 'break':"
counter=5
while [ $counter -gt 0 ]; do
    echo "Counter is $counter"
    if [ $counter -eq 3 ]; then
```

```
    echo "Breaking the loop when counter is $counter"
    break
fi
counter=$((counter-1))
done

echo "Script execution completed."
```

## OUTPUT

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh program4.sh
trap: SIGINT: bad trap
This is a demonstration of script control commands.
Enter a number (negative to exit the script):
-2
You entered a negative number. Exiting...
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh program4.sh
trap: SIGINT: bad trap
This is a demonstration of script control commands.
Enter a number (negative to exit the script):
4
For loop demonstration with 'continue':
Iteration 1
Iteration 2
Skipping iteration 3 using continue...
Iteration 4
Iteration 5
While loop demonstration with 'break':
Counter is 5
Counter is 4
Counter is 3
Breaking the loop when counter is 3
Script execution completed.
```

## **SOURCE CODE**

```
fibonacci(){
    a=0
    b=1
    c=0
    echo "The Fibonacci Series for $1 terms is:"
    for i in $(seq 1 $1)
    do
        echo "$c"
        c=$((a + b))
        b=$a
        a=$c
    done
}

echo "Enter the Fibonacci number: "
read n
fibonacci "$n"
```

## OUTPUT

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh p5.sh
Enter the Fibonacci number:
8
The Fibonacci Series for 8 terms is:
0
1
1
2
3
5
8
13
```

## **SOURCE CODE**

```
fruits_file=$(cat fruit.txt | grep App.e)
echo "\n1. Using '.' to find out all the original word wheres given
word is 'App.e'"
echo "Output:\n$fruits_file"
fruits_file=$(cat fruit.txt | grep Ap*le)
echo "\n2. Using '*' to find out all the fruits name of 'Ap' one after
another in it"
echo "Output:\n$fruits_file"
fruits_file=$(cat fruit.txt | grep ^B)
echo "\n3. Using '^' to find out all the words that start with the letter
'B'"
echo "output:\n$fruits_file"
fruits_file=$(cat fruit.txt | grep "\ ")
echo "\n4. Using '\' to find out all the fruits name that has single space
in their full name"
echo "Output:\n$fruits_file"
fruits_file=$(cat fruit.txt | grep -E Ch?)
echo "\n5. Using '?' to find out all the fruits name that has 'Ch' in it"
echo "Output:\n$fruits_file"
fruits_file=$(cat fruit.txt | grep -E "(fruit)")
echo "\n6. Using '()' to find out all the fruits name that has word
'fruit' in it"
echo "Output:\n$fruits_file"
```

# OUTPUT

## ➤ fruit.txt file



```
Open  [v]  [f+]  *fruit.txt  Save  [≡]  [–]  [□]  [X]
/mnt/MyShare/Desktop

1 Apple
2 Banana
3 Bil Berry
4 Black Berry
5 custard Apple
6 Currant
7 Cherimoya
8 Chico Fruit
9 Drangonfruit
10 Goji Berry
11 Juniper Berry
12 Passuib Fruit
13 Star Fruit
14 Salal Berry
15 Ugli Fruit
```

```
1. Using '.' to find out all the original word wheres given
word is 'App.e'
Output:
Apple
custard Apple

2. Using '*' to find out all the fruits name of 'Ap' one after
another in it
Output:
Apple
custard Apple

3. Using '^' to find out all the words that start with the letter
'B'
output:
Banana
Bil Berry
Black Berry

4. Using '\' to find out all the fruits name that has single space
in their full name
Output:
Bil Berry
Black Berry
custard Apple
Chico Fruit
Goji Berry
Juniper Berry
Passuib Fruit
Star Fruit
Salal Berry
Ugli Fruit

5. Using '?' to find out all the fruits name that has 'Ch' in it
Output:
Currant
Cherimoya
Chico Fruit

6. Using '()' to find out all the fruits name that has word
'fruit' in it
Output:
Drangonfruit
```

## **SOURCE CODE (sed command):**

echo "1.Replacing or substituting string:"

echo "-----"

```
sed 's/unix/linux/' sed.txt
```

echo

echo "2.Replacing the nth occurrence of a pattern in a line:"

echo "-----"

```
sed 's/unix/linux/2' sed.txt
```

echo

echo "3.Replacing all the occurrence of the pattern in a line:"

echo "-----"

```
sed 's/unix/linux/g' sed.txt
```

echo

echo "4.Replacing from nth occurrence to all occurrences in a line:"

echo "-----"

```
sed 's/unix/linux/3g' sed.txt
```

echo

echo "5.Replacing string on a specific line number:"

echo "-----"

```
sed '3 s/unix/linux/' sed.txt
```

echo

echo "6.Duplicating the replaced line with /p flag:"

echo "-----"

```
sed 's/unix/linux/p' sed.txt
```

echo



```
echo "7.Printing only the replaced lines:"
```

```
echo "-----"
```

```
sed -n 's/unix/linux/p' sed.txt
```

```
echo
```

```
echo "8.Replacing string on a range of lines:"
```

```
echo "-----"
```

```
sed '2,$ s/unix/linux/' sed.txt
```

```
echo
```

```
echo "9.Deleting lines from a particular file:"
```

```
echo "-----"
```

```
sed '2,4d' sed.txt
```

## **SOURCE CODE (gawk command):**

```
gawk 'BEGIN { print "Enter the mark:"  
getline mark < "-"  
if (mark >= 90) print "A+"  
else if( mark >= 80) print "A"  
else if( mark >= 70) print "B+"  
else if( mark >= 60) print "B"  
else if( mark >= 50) print "C+"  
else print "Fail" }'
```

## OUTPUT (sed command):

```
sed.txt
/mnt/MyShare/Desktop

1|unix is great os. unix is opensource. unix is free os.
2|learn operating system.
3|unix linux which one you choose.
4|unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
```

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh p7a.sh
1.Replacing or substituting string:
-----
linux is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.

2.Replacing the nth occurrence of a pattern in a line:
-----
unix is great os. linux is opensource. unix is free os.
learn operating system.
unix linux which one you choose.
unix is easy to learn.linux is a multiuser os.Learn unix .unix is a powerful.

3.Replacing all the occurrence of the pattern in a line:
-----
linux is great os. linux is opensource. linux is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.linux is a multiuser os.Learn linux .linux is a powerful.

4.Replacing from nth occurrence to all occurrences in a line:
-----
unix is great os. unix is opensource. linux is free os.
learn operating system.
unix linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn linux .linux is a powerful.

5.Replacing string on a specific line number:
-----
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
unix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.

6.Duplicating the replaced line with /p flag:
-----
linux is great os. unix is opensource. unix is free os.
linux is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.

7.Printing only the replaced lines:
-----
linux is great os. unix is opensource. unix is free os.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.

8.Replacing string on a range of lines:
-----
unix is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.

9.Deleting lines from a particular file:
-----
unix is great os. unix is opensource. unix is free os.
```

## OUTPUT (gawk command):

- Install gawk package

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sudo apt install gawk
```

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh program7b.sh
Enter the mark:
95
A+
```

## **SOURCE CODE**

```
DATE=$(date +%y%m%d)
read -p "Give name to the archive file:" file
FILE=$file$DATE.tgz
read -p "Enter the Filename: " SOURCE
read -p "Enter the Destination path: " des
DESTINATION=$des/$FILE
if [ -f $SOURCE ]
then
echo
else
echo "$SOURCE doesn't exist, BACKUP INCOMPLETE"
exit
fi
FILE_NO=1
exec < $SOURCE
read FILE_NAME
while [ $? -eq 0 ]
do
if [ -f $FILE_NAME ] || [ -d $FILE_NAME ]
then
FILE_LIST="$FILE_LIST $FILE_NAME"
else
echo "$FILE_NAME doesn't exist, thus it is not included"
echo "BACKUP is still on process"
echo
```

fi

FILE\_NO=\$((FILE\_NO+1))

read FILE\_NAME

done

echo "Starting Archive..."

tar -czf \$DESTINATION \$FILE\_LIST 2>/dev/null

echo "Archive COMPLETED at \$DESTINATION"

exit

## OUTPUT

- Creating the file to Store the backup file:

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ gedit backup.txt
```

- Backup Files:



- Running the Script to Backup the Files:

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ sh program8.sh
Give name to the archive file:NewBackup
Enter the Filename: backup.txt
Enter the Destination path: /home/ubuntu/Desktop

Starting Archive...
Archive COMPLETED at /home/ubuntu/Desktop/NewBackup241009.tgz
```

- Archive File(NewBackup241009.tgz):



- Listing of the Archive contents from a Terminal Prompt Type:

```
ubuntu@ubuntu:/mnt/MyShare/Desktop$ tar -tzf /home/ubuntu/Desktop/NewBackup241009.tgz
home/ubuntu/Documents/docfile
home/ubuntu/Downloads/downfile.txt
home/ubuntu/Music/musicfile.txt
ubuntu@ubuntu:/mnt/MyShare/Desktop$ tar -tzvf /home/ubuntu/Desktop/NewBackup241009.tgz
-rwxrwxrwx ubuntu/ubuntu 60 2024-10-09 21:31 home/ubuntu/Documents/docfile
-rwxrwxrwx ubuntu/ubuntu 60 2024-10-09 21:31 home/ubuntu/Downloads/downfile.txt
-rwxrwxrwx ubuntu/ubuntu 60 2024-10-09 21:31 home/ubuntu/Music/musicfile.txt
```

## **SOURCE CODE**

### **A) Creating Text Menus**

```
diskspace() {  
    clear  
    df -k  
}  
diskspace  
whoseon() {  
    clear  
    who  
}  
whoseon  
memusage() {  
    clear  
    cat /proc/meminfo  
}  
memusage  
menu(){  
    clear  
    echo  
    echo "\t\t\t\t\tSys Admin Menu\n"  
    echo "\t\t1. Display disk space"  
    echo "\t\t2. Display logged on users"  
    echo "\t\t3. Display memory usage"  
    echo "\t\t0. Exit program\n\n"  
    echo
```



```
echo "\t\tEnter option: "
read option
echo
}
menu
while [ True ]
do
menu
case $option in
0)
break ;;
1)
diskspace ;;
2)
whoseon ;;
3)
memusage ;;
*)
clear
echo "Sorry, wrong selection";;
esac
echo "\n\n\t\tHit any key to continue"
read line
done
clear
```

## B)Text Window Widgets

```
temp=$(mktemp -t test.XXXXXXX)
temp2=$(mktemp -t test2.XXXXXXX)
diskspace(){
clear
df -k> $temp
dialog --textbox $temp 20 50
}
whoseon() {
clear
who> $temp
dialog --textbox $temp 20 50
}
memusage(){
clear
cat /proc/meminfo> $temp
dialog --textbox $temp 20 50
}
while [ 1 ]
do
clear
dialog --menu "Sys Admin Menu" 20 30 10 1 "Display diskspace" 2
"Display users" 3 "Display memory usage" 2> $temp2
if [ $? -eq 1 ]
then
break
fi
```

```
selection=$(cat $temp2)
case $selection in
1) diskpace ;;
2) whoseon ;;
3) memusage ;;
*) dialog --msgbox "Sorry, invalid selection" 10 30
esac
done
clear
rm -f $temp 2> /dev/null
rm -f $temp2 2> /dev/null
```

# OUTPUT

## A) Text Menus

```

                                     Sys Admin Menu

1. Display disk space
2. Display logged on users
3. Display memory usage
0. Exit program

Enter option:

```

### 1. Display Disk Space

```

Filesystem      1K-blocks      Used Available Use% Mounted on
tmpfs            196616         2092    194524   2% /run
/dev/sr1         6057964      6057964         0 100% /cdrom
/cow             983064      271112    711952  28% /
tmpfs            983064          8    983056   1% /dev/shm
tmpfs            5120          8      5112   1% /run/lock
tmpfs            983064          4    983060   1% /tmp
tmpfs            196612        160    196452   1% /run/user/1000
/dev/sr0          90084      90084         0 100% /media/ubuntu/CDROM
vmhgfs-fuse     487730416 129648776 358081640  27% /mnt/hgfs
vmhgfs-fuse     487730416 129648776 358081640  27% /mnt/MyShare

Hit any key to continue

```

### 2. Displaying Logged Users

```

ubuntu  seat0      2024-10-09 16:27 (login screen)
ubuntu  :0         2024-10-09 16:28 (:0)

Hit any key to continue

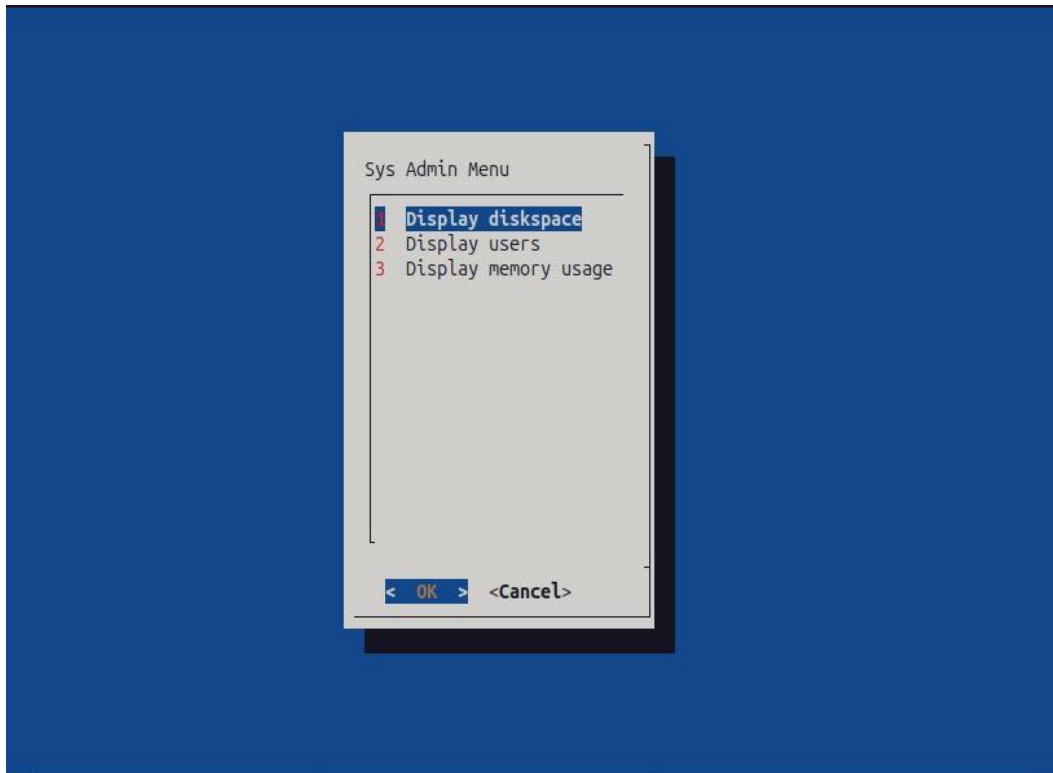
```

### 3. Displaying Memory Usage

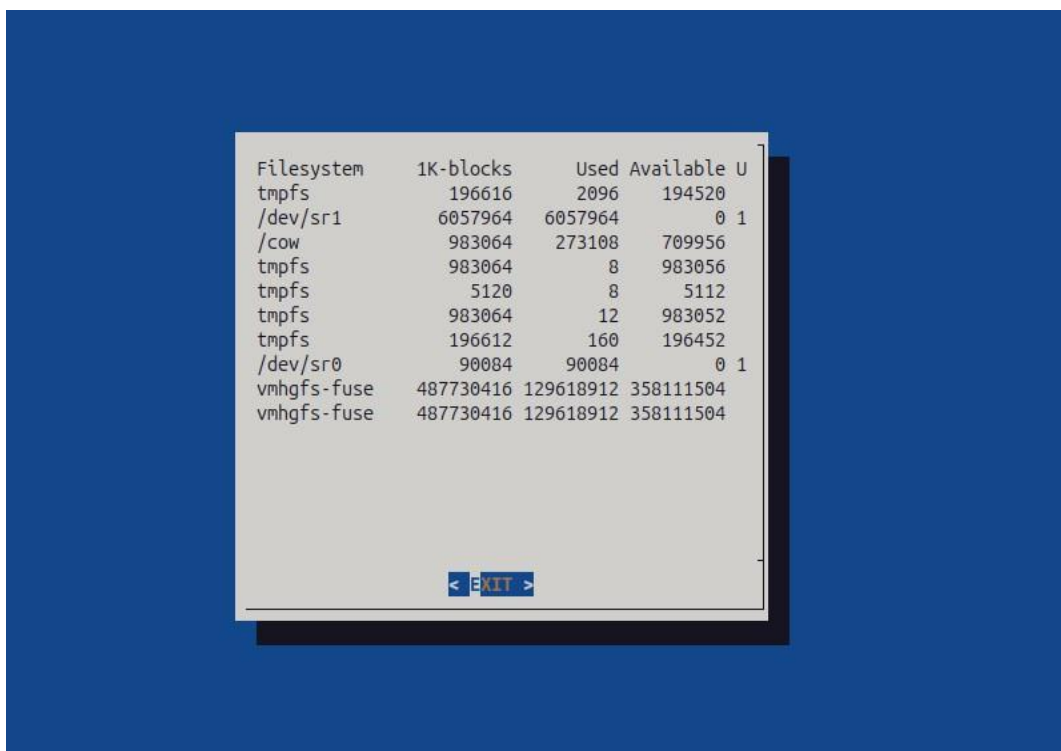
```
PageTables:      21296 kB
SecPageTables:   0 kB
NFS_Unstable:    0 kB
Bounce:          0 kB
WritebackTmp:    0 kB
CommitLimit:    983064 kB
Committed_AS:    5479352 kB
VmallocTotal:    34359738367 kB
VmallocUsed:     62304 kB
VmallocChunk:    0 kB
Percpu:          102400 kB
HardwareCorrupted: 0 kB
AnonHugePages:   0 kB
ShmemHugePages:  0 kB
ShmemPmdMapped:  0 kB
FileHugePages:   0 kB
FilePmdMapped:   0 kB
Unaccepted:      0 kB
HugePages_Total: 0
HugePages_Free:  0
HugePages_Rsvd:  0
HugePages_Surp:  0
Hugepagesize:    2048 kB
Hugetlb:         0 kB
DirectMap4k:     249728 kB
DirectMap2M:     1847296 kB
DirectMap1G:     0 kB

Hit any key to continue
```

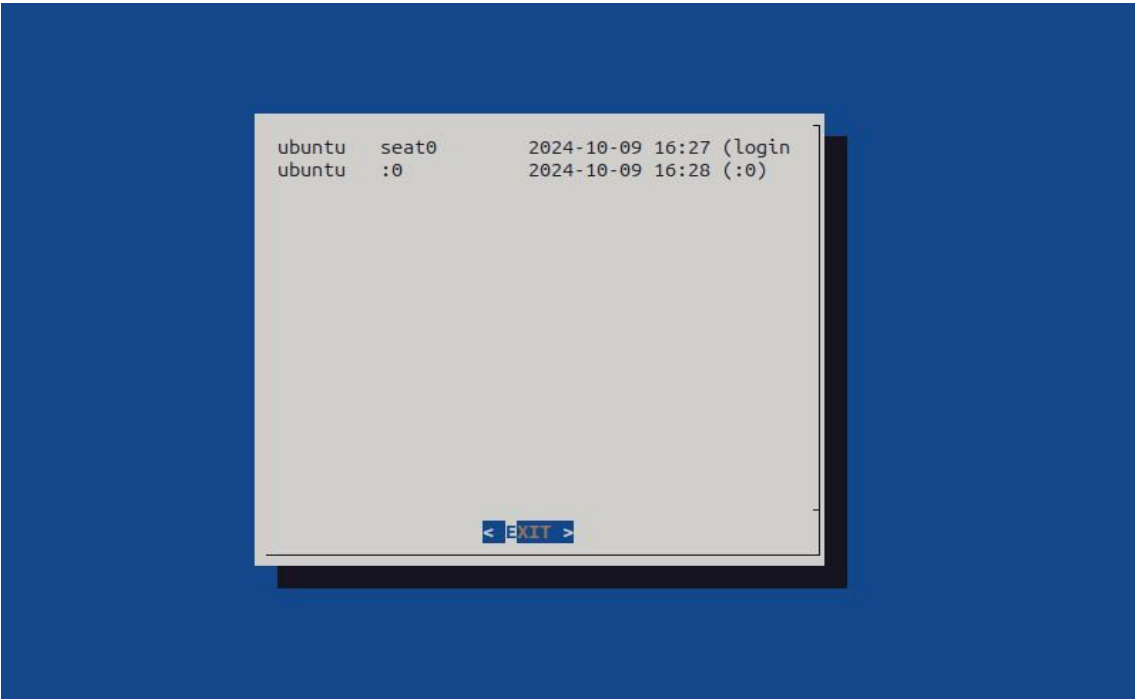
## B)Text Window Widgets



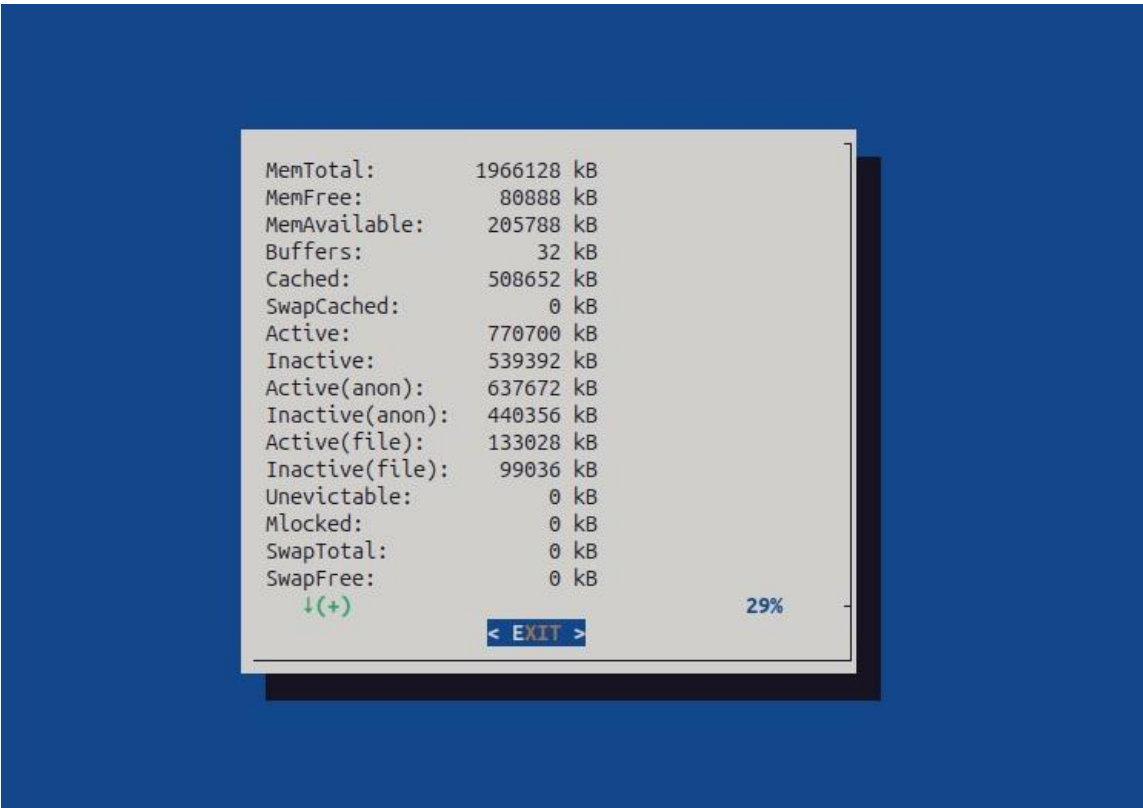
### 1. Display Disk Space



## 2. Displaying Logged Users



## 3. Displaying Memory Usage



## SOURCE CODE AND OUTPUTS

- To view the list of databases by using \l command:

```
ubuntu@ubuntu:~$ sudo -i -u postgres
postgres@ubuntu:~$ psql
psql (16.4 (Ubuntu 16.4-0ubuntu0.24.04.2))
Type "help" for help.
```

```
postgres=# \l
postgres=# \l
```

List of databases								
Name	Owner	Encoding	Locale Provider	Collate	Ctype	ICU Locale	ICU Rules	Access privileges
postgres	postgres	UTF8	libc	C.UTF-8	C.UTF-8			
template0	postgres	UTF8	libc	C.UTF-8	C.UTF-8			=c/postgres +
								postgres=Ctc/postgres
template1	postgres	UTF8	libc	C.UTF-8	C.UTF-8			=c/postgres +
								postgres=Ctc/postgres

(3 rows)

- Creating Databases:

```
postgres=# CREATE DATABASE bank_details;
CREATE DATABASE
```

- Listing the Database and Checking Database which Created by User:

List of databases								
Name	Owner	Encoding	Locale Provider	Collate	Ctype	ICU Locale	ICU Rules	Access privileges
bank_details	postgres	UTF8	libc	C.UTF-8	C.UTF-8			
postgres	postgres	UTF8	libc	C.UTF-8	C.UTF-8			
template0	postgres	UTF8	libc	C.UTF-8	C.UTF-8			=c/postgres
								postgres=Ctc/postgres
template1	postgres	UTF8	libc	C.UTF-8	C.UTF-8			=c/postgres
								postgres=Ctc/postgres

(4 rows)

- Changing Path to the Created Database(bank\_details):

```
postgres=# \c bank_details;
You are now connected to database "bank_details" as user "postgres".
bank_details=#
```

- Creating Table:

```
bank_details=# CREATE TABLE BANKDETAILS(acc_no integer,name text,balance numeric,acc_type
text);
CREATE TABLE
```



➤ Inserting Values to the Table:

```
bank_details=# INSERT INTO BANKDETAILS VALUES(30201,'NAVEEN',1000.00,'Savings');
INSERT 0 1
bank_details=# SELECT *FROM BANKDETAILS;
 acc_no | name  | balance | acc_type
-----+-----+-----+-----
 30201  | NAVEEN | 1000.00 | Savings
(1 row)
```

➤ Inserting Multiple Values to the Table:

```
bank_details=# INSERT INTO BANKDETAILS VALUES (30202,'Charan',500.00,'Savings'),(30203,'Siva',6000.00,'Current'),(30204,'Sanjay',500.00,'Current'),(30205,'Tamil',4000.00,'Savings')
;
INSERT 0 4
bank_details=# SELECT * FROM BANKDETAILS;
 acc_no | name  | balance | acc_type
-----+-----+-----+-----
 30201  | NAVEEN | 1000.00 | Savings
 30202  | Charan | 500.00  | Savings
 30203  | Siva   | 6000.00 | Current
 30204  | Sanjay | 500.00  | Current
 30205  | Tamil  | 4000.00 | Savings
(5 rows)
```

➤ Updating the Column in Table:

```
bank_details=# UPDATE BANKDETAILS SET balance=3000.00 WHERE balance=500.00;
UPDATE 2
bank_details=# SELECT * FROM BANKDETAILS;
 acc_no | name  | balance | acc_type
-----+-----+-----+-----
 30201  | NAVEEN | 1000.00 | Savings
 30203  | Siva   | 6000.00 | Current
 30205  | Tamil  | 4000.00 | Savings
 30202  | Charan | 3000.00 | Savings
 30204  | Sanjay | 3000.00 | Current
(5 rows)
```

➤ Deleting the Column in Table:

```
bank_details=# DELETE FROM BANKDETAILS WHERE acc_no=30202;
DELETE 1
bank_details=# SELECT * FROM BANKDETAILS;
 acc_no | name | balance | acc_type
-----+-----+-----+-----
 30201 | NAVEEN | 1000.00 | Savings
 30203 | Siva | 6000.00 | Current
 30205 | Tamil | 4000.00 | Savings
 30204 | Sanjay | 3000.00 | Current
(4 rows)
```

➤ Deleting the Table:

```
bank_details=# DROP TABLE BANKDETAILS;
DROP TABLE
```

➤ Checking the Table if Exists or Not:

```
bank_details=# SELECT * FROM BANKDETAILS;
ERROR: relation "bankdetails" does not exist
LINE 1: SELECT * FROM BANKDETAILS;
                        ^
```

➤ Deleting the Database and Listing of Databases:

```
bank_details=# \c postgres;
You are now connected to database "postgres" as user "postgres".
postgres=# DROP DATABASE bank_details;
DROP DATABASE
postgres=# \l
                                List of databases
  Name | Owner | Encoding | Locale Provider | Collate | Ctype | ICU Locale | ICU Rules | Access privileges
-----+-----+-----+-----+-----+-----+-----+-----+-----
 postgres | postgres | UTF8 | libc | C.UTF-8 | C.UTF-8 | | | =c/postgres +
 template0 | postgres | UTF8 | libc | C.UTF-8 | C.UTF-8 | | | postgres=CtC/postgres +
 template1 | postgres | UTF8 | libc | C.UTF-8 | C.UTF-8 | | | =c/postgres +
                                postgres=CtC/postgres
(3 rows)
```

➤ Quit from Database:

```
postgres=# \q
```

➤ Logout from psql:

```
postgres@ubuntu:~$ logout
ubuntu@ubuntu:~$
```