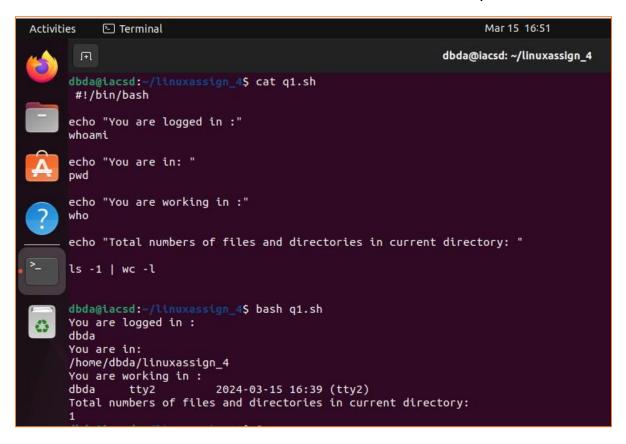
## ASS-4

## 1) Write a shell script to print

- your are logged in as which user
- in which directory you are
- and in which terminal you are working
- total number of files and directories in current directory



2). Write a shell script to create a menu driven program for adding, deletion or finding a record in a database. Database should have the field like rollno, name, semester and marks of three subjects. Last option of the menu should be to exit the menu.

```
dbda@iacsd:-/linuxassign_4

Q = - o ×

GNU nano 6.2

il/btn/bash

read -p "How many entries you want to take:" entries

for (( a=0; a<$entries; a++ ))

cead -p "Enter a rollno: " num

read -p "Enter the name: " name

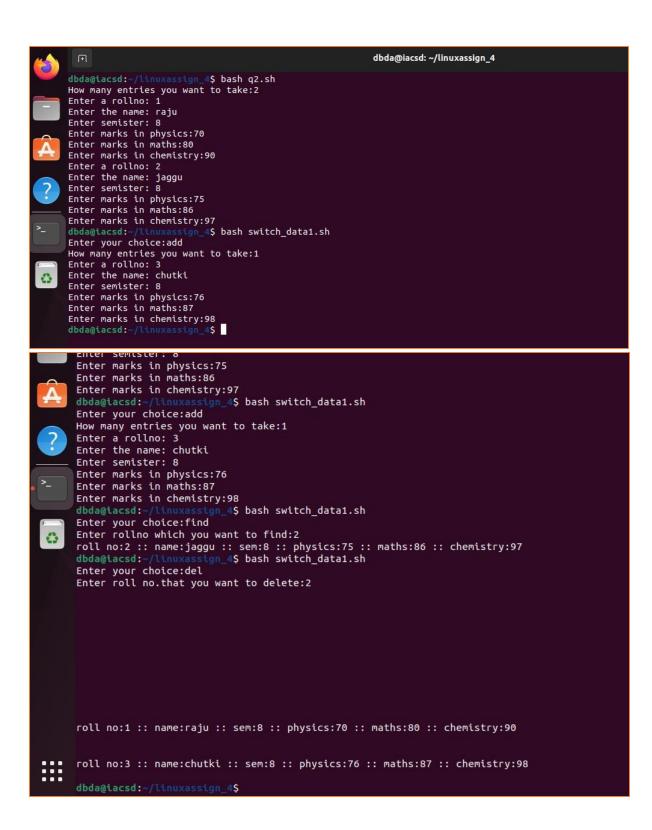
read -p "Enter semister: " sem

read -p "Enter marks in physics:" phy

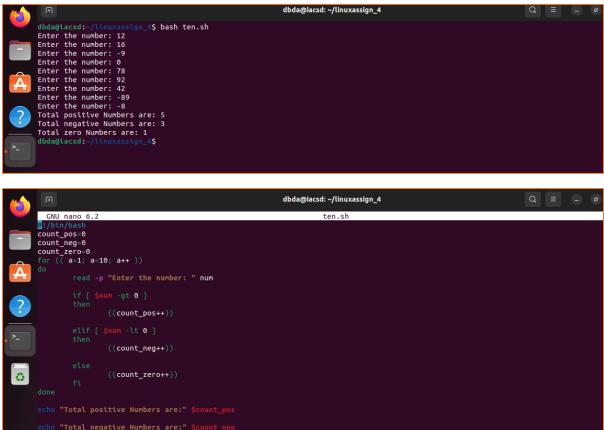
read -p "Enter marks in maths:" math

read -p "Enter marks in chemistry:" chem

cecho -e "roll no:$num :: name:$name :: sem:$sem :: physics:$phy :: maths:$math :: chemistry:$chem \n" >> data1.txt
```



3) Write a Linux shell script to accept 10 number and tell how many are +tive, -tive and zero.



4) Write a shell script to accept five number and display max and min value.

```
dbda@lacsd: ~/linuxassign_4

Q = - 0

GNU nano 6.2

#!/bin/bash

max_var=-214783647

min_var=2147453647

echo "Enter Number:"

for((a=0; a<5; a++))

do

read num

if [ $num -gt $max_var ]

then

(( max_var=num ))

fi

if [ $num -lt $min_var ]

then

(( min_var=num ))

fi

done

echo "Max no you have enter is: $max_var"

echo "Min no you have enter is: $min_var"
```



5) Write a script to find out String is palindrome or not.





6) Write a shell script to print given number's sum of all digits (eg. If number is 123, then it's sum of all digits will be 1+2+3=6)

```
dbda@iacsd:~/linuxassign_4$ cat q6.sh
#!/bin/bash
read -p "Enter a number:" num
sum=0
mod=0
add=0
while [ $num != 0 ]
do
       mod=`expr $num % 10 `
       #sum=' expr $sum + $mod '
        num=` expr $num / 10 `
        add=' expr $mod + $add '
done
echo " sum of all digits will be: $add "
dbda@iacsd:~/linuxassign_4$ bash q6.sh
Enter a number:123
sum of all digits will be: 6
dbda@iacsd:~/linuxassign_4$
```

## 7) Create a script to

Create user, Delete user, Create group, delete Group using case

```
dbda@iacsd: ~/linuxassign_4
GNU nano 6.2
                                                                      q7.sh
#!/bin/bash
echo "To Add user=1 Delete user=2 create group=3 delete group=4 exit=0 "
read choice
        read username
        sudo adduser $username
        echo "Enter user name to be deleated: "
        read del_user
        sudo userdel $del_user
        echo "create a group: "
        read add_group
        sudo addgroup $add_group
        echo "Delete a group: "
        read del_grp
        sudo delgroup $del_grp
        echo "Invalid entry!"
esac
```

```
dbda@iacsd:~/linuxassign_4$ bash q7.sh
     To Add user=1 Delete user=2 create group=3 delete group=4 exit=0
     Enter user name:
     harsh
      [sudo] password for dbda:
     Adding user `harsh' ...
     Adding new group `harsh' (1002) ...
     Adding new user `harsh' (1002) with group `harsh' ...
Creating home directory `/home/harsh' ...
Copying files from `/etc/skel' ...
     New password:
     BAD PASSWORD: The password is shorter than 8 characters
     Retype new password:
     passwd: password updated successfully
     Changing the user information for harsh
0
     Enter the new value, or press ENTER for the default
              Full Name []: harsh
              Room Number []:
              Work Phone []:
              Home Phone []:
              Other []:
     Is the information correct? [Y/n] y
     dbda@iacsd:~/linuxassign_4$ bash q7.sh
     To Add user=1 Delete user=2 create group=3 delete group=4 exit=0
     create a group:
     Adding group 'max' (GID 1003) ...
     dbda@iacsd:~/linuxassign_4$ ls -l
     total 40
```

```
dbda@iacsd: ~/linuxassign_4
create a group:
Adding group 'max' (GID 1003) ...
dbda@iacsd:~/linuxassign_4$ ls -l
total 40
-rw-rw-r-- 1 dbda dbda
                        9 Mar 15 18:52 data1.txt
-rw-rw-r-- 1 dbda dbda 194 Mar 15 18:45 q1.sh
-rw-rw-r-- 1 dbda dbda 443 Mar 15 19:03 q2.sh
-rw-rw-r-- 1 dbda dbda 87 Mar 15 19:52 Q4.sh
-rwx----- 1 dbda dbda 187 Mar 15 20:35 05.sh
-rw-rw-r-- 1 dbda dbda 231 Mar 15 20:18 q6.sh
-rwx----- 1 dbda dbda 464 Mar 15 21:39 q7.sh
-rw-rw-r-- 1 dbda dbda 473 Mar 15 19:02 switch_data1.sh
-rw-rw-r-- 1 dbda dbda 374 Mar 15 19:38 ten.sh
-rwx----- 1 dbda dbda 38 Mar 15 20:46 test.sh
dbda@iacsd:~/linuxassign_4$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,dbda
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
UUCD:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
```

