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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

```
dbda@iacsd:~/project$ cat 1.sh
#!/bin/bash
whoami
pwd
tty
ls -al | wc -l
dbda@iacsd:~/project$ bash 1.sh
dbda
/home/dbda/project
/dev/pts/1
11
```

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:~/project$ cat 2.sh
#!/bin/bash
echo "PRESS 1 FOR ADDING"
echo "PRESS 2 FOR DELETION"
echo "PRESS 3 FOR FINDING"
echo "PRESS 4 FOR EXIT"
read num
case $num in
        1)
                echo "Enter the entries to be added"
               read -p "ROLL NO:- " roll_no
               read -p "NAME:- " name
                read -p "SEMESTER:- " sem
               read -p "SUBJECT1:- " s1
               read -p "SUBJECT2:- " s2
                read -p "SUBJECT3:- " s3
                echo "$roll_no $name $sem $s1 $s2 $s3" >> data.txt
        ;;
        2)
               read -p "ROLL NO:- " roll no
                sed -i "/$roll no/d" data.txt
                echo "$st1"
        3)
               read -p "ROLL NO:- " roll_no
               echo "ROLL NO, NAME SEMESTER, SUBJECT1, SUBJECT2, SUBJECT3"
                cat data.txt | grep "$roll_no"
        ;;
esac
dbda@iacsd:~/project$ bash 2.sh
PRESS 1 FOR ADDING
PRESS 2 FOR DELETION
PRESS 3 FOR FINDING
PRESS 4 FOR EXIT
1
Enter the entries to be added
ROLL NO: - 104
```

NAME:- salman SEMESTER:- 4 SUBJECT1:- 30 SUBJECT2:- 25 SUBJECT3:- 50

```
dbda@iacsd:~/project$ cat data.txt
201,d,2,2,2,3
301,df,34,54,45,45
102 2354 G F GH HG
103 DSFG 23 VB G GF
104 salman 4 30 25 50
dbda@iacsd:~/project$ bash 2.sh
PRESS 1 FOR ADDING
PRESS 2 FOR DELETION
PRESS 3 FOR FINDING
PRESS 4 FOR EXIT
ROLL NO: - 104
dbda@iacsd:~/project$ cat data.txt
201,d,2,2,2,3
301,df,34,54,45,45
102 2354 G F GH HG
103 DSFG 23 VB G GF
dbda@iacsd:~/project$ bash 2.sh
PRESS 1 FOR ADDING
PRESS 2 FOR DELETION
PRESS 3 FOR FINDING
PRESS 4 FOR EXIT
3
ROLL NO: - 301
ROLL NO, NAME SEMESTER, SUBJECT1, SUBJECT2, SUBJECT3
301,df,34,54,45,45
dbda@iacsd:~/project$ bash 2.sh
PRESS 1 FOR ADDING
PRESS 2 FOR DELETION
PRESS 3 FOR FINDING
PRESS 4 FOR EXIT
dbda@iacsd:~/project$
```

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

```
dbda@iacsd:~/project$ cat 3.sh
#!/bin/bash
echo "Enter 10 numbers"
count_p=0
count_n=0
count_z=0
for((i=0;i<10;i++))
do
        read num
        if [ $num -gt 0 ]
        then
                count_p=$((count_p+1))
        elif [ $num -lt 0 ]
        then
                count_n=$((count_n+1))
        else
                count_z=$((count_z+1))
        fi
done
echo -e "POSITIVE NUMBER COUNT: $count_p\nNEGATIVE NUMBER COUNT $count_n\nZERO NUMBER COUNT $count_z"
```

```
dbda@iacsd:~/project$ bash 3.sh
Enter 10 numbers
3
5
-2
0
-7
0
-4
2
1
0
POSITIVE NUMBER COUNT: 4
NEGATIVE NUMBER COUNT 3
ZERO NUMBER COUNT 3
```

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

```
dbda@iacsd:~/project$ cat 4.sh
#!/bin/bash
read num
temp_g=$num
temp_s=$num
for((i=0;i<4;i++))
do
        read num1
        if [ $num1 -gt $temp_g ]
        then
                temp_g=$num1
        elif [ $num1 -lt $temp_s ]
        then
                temp_s=$num1
        fi
done
echo -e "LARGEST NO:- $temp_g \nSMALLEST NO:- $temp_s"
dbda@iacsd:~/project$ bash 4.sh
30
8
43
72
25
LARGEST NO:- 72
SMALLEST NO:- 8
```

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:~/project$ bash 6.sh
input the number:- 345
12
```

## 7) Create a script to

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

```
dbda@iacsd:~/project$ cat 7.sh
#!/bin/bash
echo "PRESS 1 FOR CREATE USER"
echo "PRESS 2 FOR DELETE USER"
echo "PRESS 3 FOR CREATE GROUP"
echo "PRESS 4 FOR DELETE GROUP"
read num
case $num in
        1)
                read -p "ENTER THE USERNAME" username
                sudo useradd $username
        ;;
        2)
                read -p "ENTER THE USERNAME" username1
                sudo deluser $username1
        ;;
3)
                read -p "ENTER THE GROUP NAME" groupname
                sudo addgroup $groupname
        4)
                read -p "ENTER THE GROUP NAME" groupname1
                sudo delgroup $groupname1
esac
```

```
dbda@iacsd:~/project$ bash 7.sh
PRESS 1 FOR CREATE USER
PRESS 2 FOR DELETE USER
PRESS 3 FOR CREATE GROUP
PRESS 4 FOR DELETE GROUP
1
ENTER THE USERNAME salman
```

```
dbda@iacsd:~/project$ bash 7.sh
PRESS 1 FOR CREATE USER
PRESS 2 FOR DELETE USER
PRESS 3 FOR CREATE GROUP
PRESS 4 FOR DELETE GROUP
2
ENTER THE USERNAME salman
Removing user `salman' ...
Warning: group `salman' has no more members.
Done.
```

```
dbda@iacsd:~/project$ bash 7.sh
PRESS 1 FOR CREATE USER
PRESS 2 FOR DELETE USER
PRESS 3 FOR CREATE GROUP
PRESS 4 FOR DELETE GROUP
3
ENTER THE GROUP NAME dac
Adding group `dac' (GID 1004) ...
Done.
```

```
dbda@iacsd:~/project$ bash 7.sh
PRESS 1 FOR CREATE USER
PRESS 2 FOR DELETE USER
PRESS 3 FOR CREATE GROUP
PRESS 4 FOR DELETE GROUP
4
ENTER THE GROUP NAME dac
Removing group `dac' ...
Done.
```