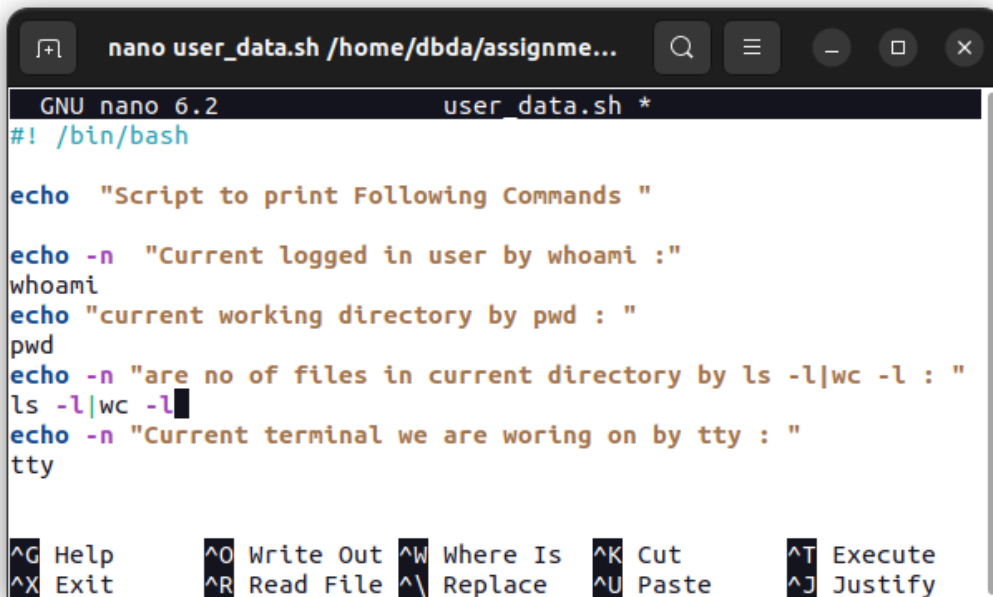


ASS-4

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

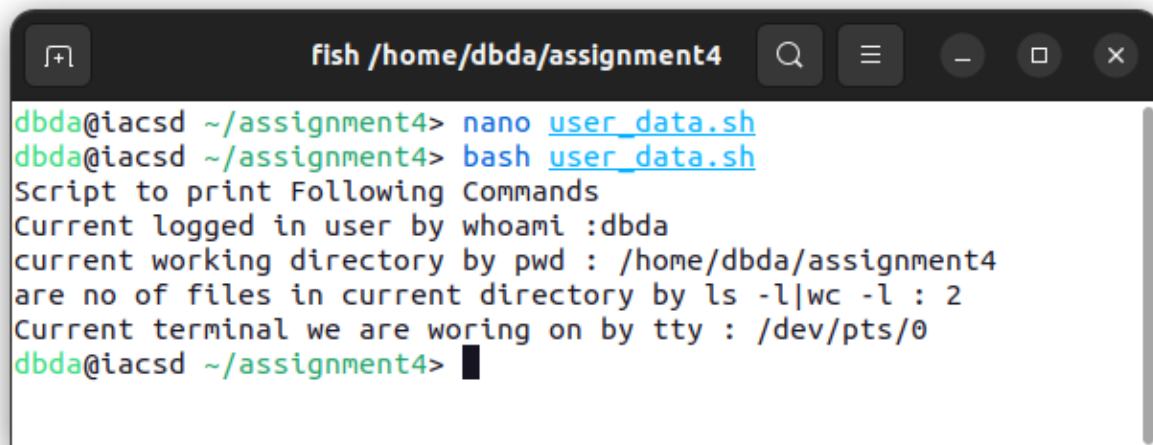


```
nano user_data.sh /home/dbda/assigme...
GNU nano 6.2 user_data.sh *
#!/bin/bash

echo "Script to print Following Commands "

echo -n "Current logged in user by whoami : "
whoami
echo "current working directory by pwd : "
pwd
echo -n "are no of files in current directory by ls -l|wc -l : "
ls -l|wc -l
echo -n "Current terminal we are woring on by tty : "
tty

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify
```



```
fish /home/dbda/assignment4
dbda@iacsd ~/assignment4> nano user_data.sh
dbda@iacsd ~/assignment4> bash user_data.sh
Script to print Following Commands
Current logged in user by whoami :dbda
current working directory by pwd : /home/dbda/assignment4
are no of files in current directory by ls -l|wc -l : 2
Current terminal we are woring on by tty : /dev/pts/0
dbda@iacsd ~/assignment4>
```

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: ~/assignment4
GNU nano 6.2 user.sh *
#!/bin/bash

while true
do
read -p "to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit : " n
case $n in
1)
    echo "enter data as follows"
    read -p "rollno,name,sem,sub1_marks,sub2_marks,sub3_marks : " data
    echo $data >> data.csv
    ;;
2)
    read -p "enter name to delete data" data
    sed -i "/$data/d" data.csv
    ;;
3)
    read -p "enter name you want to find" data
    grep $data data.csv
    ;;
4)
    cat data.csv
    ;;
5)
    break
;;
esac
done

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo
^X Exit      ^R Read File  ^_ Replace    ^U Paste      ^J Justify    ^_ Go To Line M-E Redo
```

```
dbda@iacsd: ~/assignment4
dbda@iacsd:~/assignment4$ nano user.sh
dbda@iacsd:~/assignment4$ bash user.sh
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :1
enter data as follows
rollno,name,sem,sub1_marks,sub2_marks,sub3_marks :16,Chandan,4,99,99,99
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :1
enter data as follows
rollno,name,sem,sub1_marks,sub2_marks,sub3_marks :24,Aayush,3,89,87,78
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :4
rollno,name,sem,sub1_marks,sub2_marks,sub3_marks
16,Chandan,4,99,99,99
24,Aayush,3,89,87,78
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :2
enter name to delete dataAayush
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :4
rollno,name,sem,sub1_marks,sub2_marks,sub3_marks
16,Chandan,4,99,99,99
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :1
enter data as follows
rollno,name,sem,sub1_marks,sub2_marks,sub3_marks :25,Piyush,4,67,87,98
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :3
enter name you want to findChandan
16,Chandan,4,99,99,99
to add student press 1 |to del press 2 | to find press 3 | to see all data press4 |press 5 to exit :5
dbda@iacsd:~/assignment4$
```

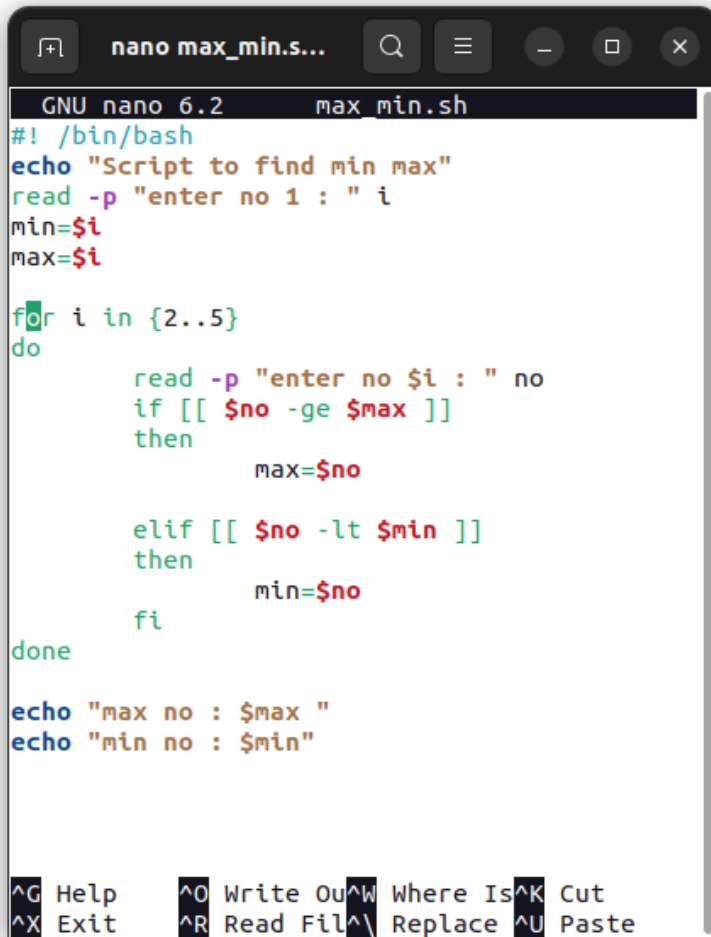
3) Write a Linux shell script to accept 10 number and tell how many are +tive, -tive and zero.

```
GNU nano 6.2 pos.sh
#!/bin/bash
echo "To find positive negative and zero in 10 no "
pos=0
neg=0
zerp=0
for i in {1..10}
do
    read -p "enter no $i :- " a
    if [[ $a -gt 0 ]]
    then
        ((pos+=1))
    elif [[ $a -lt 0 ]]
    then
        ((neg+=1))
    else
        ((zerp+=1))
    fi
done
echo "There are $pos nos which are positive"
echo "There are $neg nos which are negative"
echo "There are $zerp nos which are zero"

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify
```

```
fish /home/dbda/assignme...
dbda@iacsd ~/assignment4> nano pos.sh
dbda@iacsd ~/assignment4> bash pos.sh
To find positive negative and zero in 10 no
enter no 1 :- 10
enter no 2 :- 20
enter no 3 :- 30
enter no 4 :- -85
enter no 5 :- 46
enter no 6 :- 0
enter no 7 :- -9
enter no 8 :- -5
enter no 9 :- 0
enter no 10 :- 0
There are 4 nos which are positive
There are 3 nos which are negative
There are 3 nos which are zero
dbda@iacsd ~/assignment4>
```

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

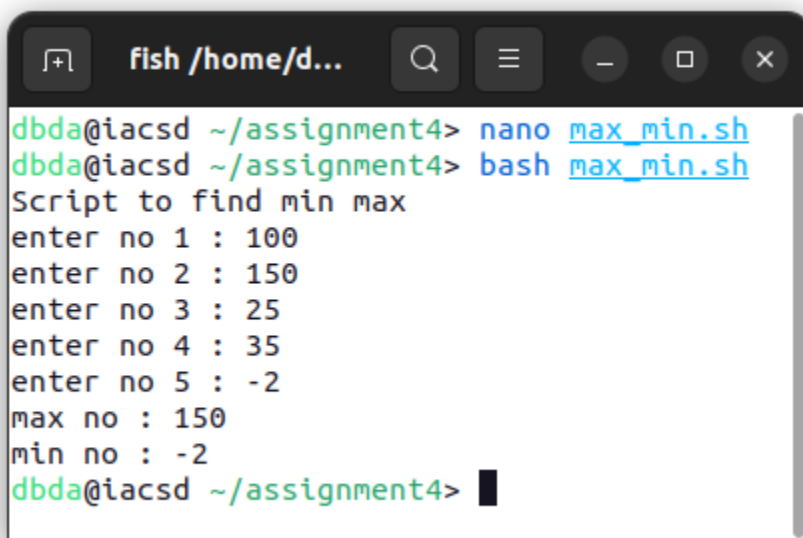


```
GNU nano 6.2 max_min.sh
#!/bin/bash
echo "Script to find min max"
read -p "enter no 1 : " i
min=$i
max=$i

for i in {2..5}
do
    read -p "enter no $i : " no
    if [[ $no -ge $max ]]
    then
        max=$no
    elif [[ $no -lt $min ]]
    then
        min=$no
    fi
done

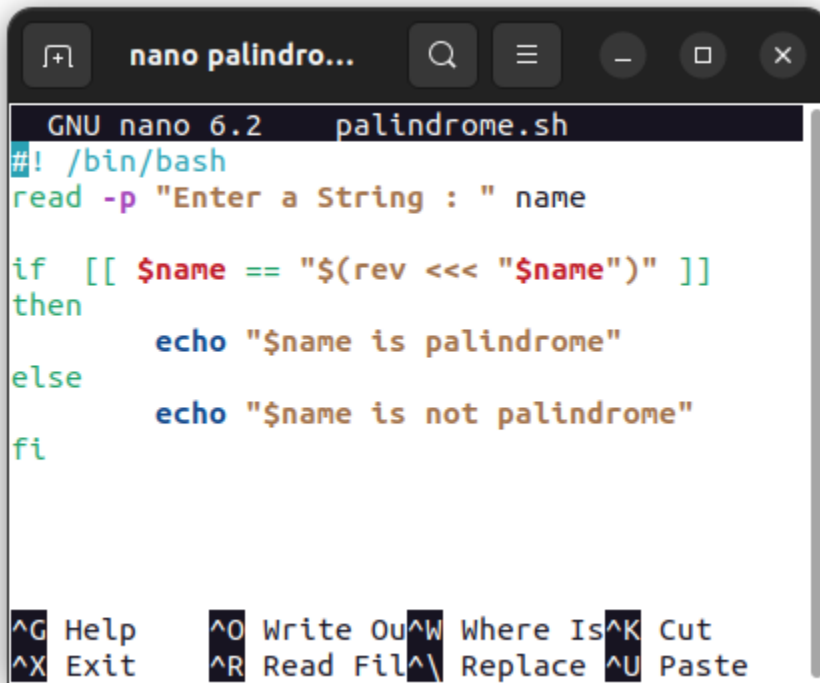
echo "max no : $max "
echo "min no : $min"

^G Help      ^O Write Ou^W Where Is^K Cut
^X Exit      ^R Read Fil^_ Replace ^U Paste
```



```
fish /home/d...
dbda@iacsd ~/assignment4> nano max_min.sh
dbda@iacsd ~/assignment4> bash max_min.sh
Script to find min max
enter no 1 : 100
enter no 2 : 150
enter no 3 : 25
enter no 4 : 35
enter no 5 : -2
max no : 150
min no : -2
dbda@iacsd ~/assignment4> █
```

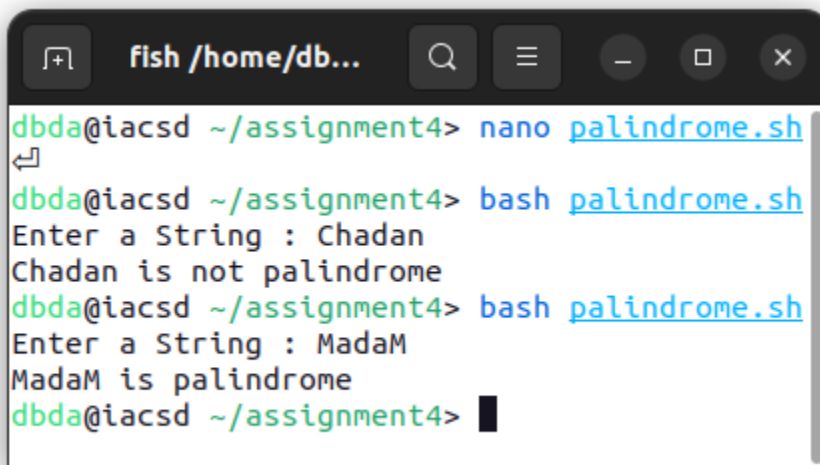
5) Write a script to find out String is palindrome or not.



```
GNU nano 6.2  palindrome.sh
#!/bin/bash
read -p "Enter a String : " name

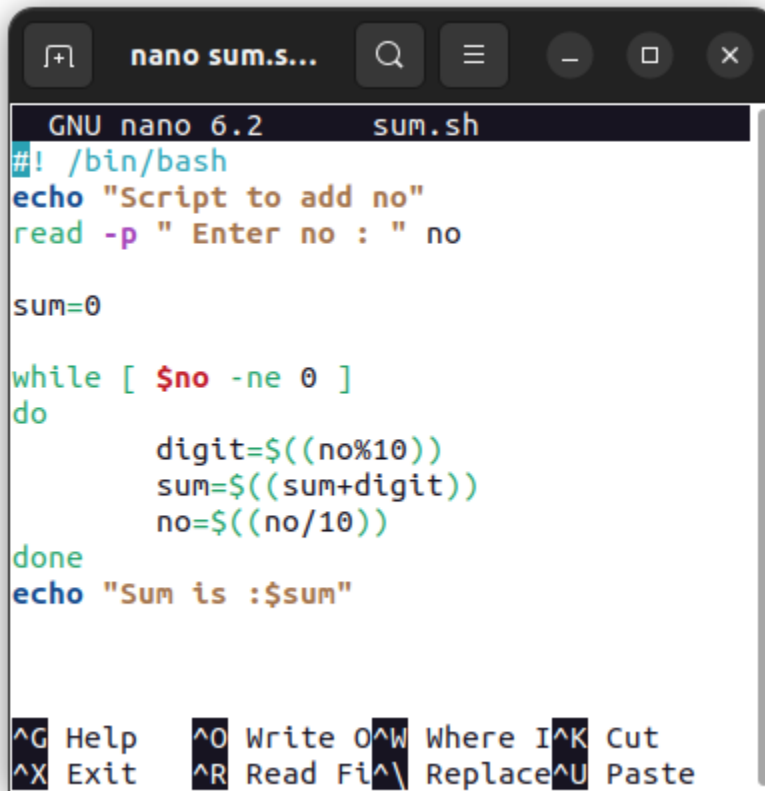
if [[ $name == "$(rev <<< "$name")" ]]
then
    echo "$name is palindrome"
else
    echo "$name is not palindrome"
fi

^G Help      ^O Write Ou^W Where Is^K Cut
^X Exit      ^R Read Fil^_ Replace ^U Paste
```



```
dbda@iacsd ~/assignment4> nano palindrome.sh
dbda@iacsd ~/assignment4> bash palindrome.sh
Enter a String : Chadan
Chadan is not palindrome
dbda@iacsd ~/assignment4> bash palindrome.sh
Enter a String : MadaM
MadaM is palindrome
dbda@iacsd ~/assignment4> █
```

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 $1+2+3=6$)

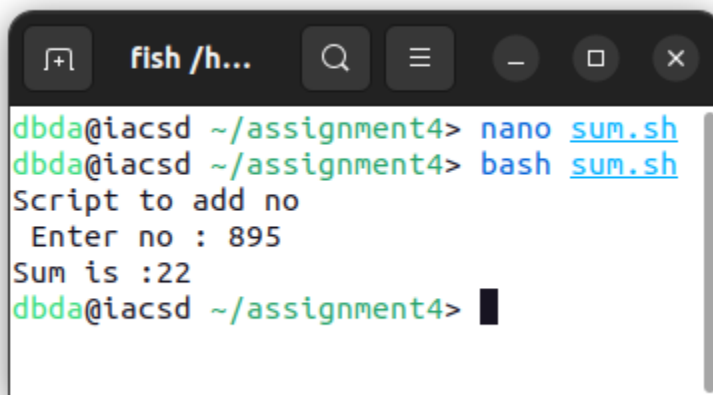


```
GNU nano 6.2      sum.sh
#!/bin/bash
echo "Script to add no"
read -p " Enter no : " no

sum=0

while [ $no -ne 0 ]
do
    digit=$((no%10))
    sum=$((sum+digit))
    no=$((no/10))
done
echo "Sum is :$sum"

^G Help      ^O Write O^W Where I^K Cut
^X Exit      ^R Read Fi^_ Replace^U Paste
```



```
dbda@iacsd ~/assignment4> nano sum.sh
dbda@iacsd ~/assignment4> bash sum.sh
Script to add no
 Enter no : 895
Sum is :22
dbda@iacsd ~/assignment4> █
```

7) Create a script to Create user , Delete user , Create group , delete Group using case



```
GNU nano 6.2 user_creation.sh *
#!/bin/bash
echo -e "Script to create delete user and group \n\tSelect option \n\t1.Create User\n\t2.Delete user\n\t3.C
read option
case $option in
1)
read -p "Enter name to create user : " us
sudo adduser $us
;;
2)
read -p "Enter name to create user : " us
sudo deluser $us
;;
3)
read -p "Enter name to create user : " us
sudo addgroup $us
;;
4)
read -p "Enter name to create user : " us
sudo delgroup $us
;;
esac

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo
^X Exit      ^R Read File  ^_ Replace    ^U Paste      ^J Justify    ^_ Go To Line M-E Redo
```

```
fish /home/dbda/assignment4
fish/home/dbda/assign... x fish/home/dbda/assign... x
dbda@iacsd ~/assignment4> nano user_creation.sh
dbda@iacsd ~/assignment4> bash user_creation.sh
Script to create delete user and group
    Select option
    1.Create User
    2.Delete user
    3.Create Group
    4.Delete Grpup
1
Enter name to create user : tinku
[sudo] password for dbda:
Adding user `tinku' ...
Adding new group `tinku' (1001) ...
Adding new user `tinku' (1001) with group `tinku' ...
Creating home directory `/home/tinku' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
Changing the user information for tinku
Enter the new value, or press ENTER for the default
    Full Name []: Tinku
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
dbda@iacsd ~/assignment4> █
```



```
fish /home/dbda/assignm...  fish /home/dbda/assignm...  x  x  v
dbda@iacsd ~/assignment4> nano user_creation.sh
dbda@iacsd ~/assignment4> bash user_creation.sh
Script to create delete user and group
    Select option
    1.Create User
    2.Delete user
    3.Create Group
    4.Delete Grpup
2
Enter name to delete user : tinku
Removing user `tinku' ...
Warning: group `tinku' has no more members.
Done.
dbda@iacsd ~/assignment4> bash user_creation.sh
Script to create delete user and group
    Select option
    1.Create User
    2.Delete user
    3.Create Group
    4.Delete Grpup
3
Enter name to create group : mango
Adding group `mango' (GID 1001) ...
Done.
dbda@iacsd ~/assignment4> bash user_creation.sh
Script to create delete user and group
    Select option
    1.Create User
    2.Delete user
    3.Create Group
    4.Delete Grpup
4
Enter name to delete group : mango
Removing group `mango' ...
Done.
dbda@iacsd ~/assignment4> █
```