



```
dbda@IACSD: ~  
GNU nano 6.2 abc.sh *  
whomami  
pwd  
who  
ls -l
```

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^_\ Replace	^U Paste	^J Justify	^/_ Go To Line



```
dbda@IACSD: ~  
dbda@IACSD:~$ nano abc.sh  
dbda@IACSD:~$ chmod 777 abc.sh  
dbda@IACSD:~$ ./abc.sh  
./abc.sh: line 1: whomami: command not found  
/home/dbda  
dbda      tty2          2024-03-15 14:20 (tty2)  
total 60  
drwxrwxr-x 2 dbda dbda 4096 Mar 14 16:45 abc  
drwxrwxr-x 4 dbda dbda 4096 Mar 15 14:37 abcd  
-rwxrwxrwx 1 dbda dbda  23 Mar 15 16:29 abc.sh  
drwxr-xr-x 2 dbda dbda 4096 Mar 12 17:55 Desktop  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Documents  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Downloads  
drwxr-xr-x 3 root root 4096 Mar 14 16:22 LINK  
drwxrwxr-x 2 dbda dbda 4096 Mar 15 14:49 moviess  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Music  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Pictures  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Public  
drwxrwxr-x 2 dbda dbda 4096 Mar 12 17:55 script  
drwx----- 4 dbda dbda 4096 Mar  9 15:01 snap  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Templates  
drwxr-xr-x 2 dbda dbda 4096 Mar  6 19:43 Videos  
dbda@IACSD:~$
```

GNU nano 6.2

script.sh

```
echo "for finding press 1"
echo "for adding press 2"
echo "for deletion press 3"

read -p "Enter the operation you want to do : " a

case $a in
  1)
    read -p "enter what you want to find : " find
    cat database.txt | grep "$find"
    ;;
  2)
    read -p "Enter the details you want to add in format (Rollno. : Name : sem : marks1 : marks2 : marks3) : " details
    echo $details >> database.txt
    cat database.txt
    ;;
  3)
    cat database.txt
    read -p "Enter the entry which you want to delete :" line
    cp database.txt test.txt
    sed "/^$line /d" test.txt > database.txt
    echo "Deleted Successfully"
    ;;
  *)
    echo "Entry not found"
esac
```

```
dbda@IACSD:~$ nano database.txt
dbda@IACSD:~$ bash script.sh
for finding press 1
for adding press 2
for deletion press 3
Enter the operation you want to do : 3
Roll no : Name : sem : m1 : m2 : m3
1 : Gbbay : 1 : 60 : 70 : 10
2 : thakur : 1 : 89 : 49 : 52
4 : jhon : 1 : 66 : 99 : 80
5 : baklawa : 1 : 78 : 54 : 95
10 : babu : 2 : 30 : 50 : 80
Enter the entry which you want to delete : 10
Deleted Successfully
dbda@IACSD:~$ cat database.txt
Roll no : Name : sem : m1 : m2 : m3
1 : Gbbay : 1 : 60 : 70 : 10
2 : thakur : 1 : 89 : 49 : 52
4 : jhon : 1 : 66 : 99 : 80
5 : baklawa : 1 : 78 : 54 : 95
dbda@IACSD:~$
```

GNU nano 6.2

script.sh

```
echo "for finding press 1"
echo "for adding press 2"
echo "for deletion press 3"

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case $a in
  1)
    read -p "enter what you want to find : " find
    cat database.txt | grep "$find"
    ;;
  2)
    read -p "Enter the details you want to add : " details
    echo $details >> database.txt
    cat database.txt
    ;;
  3)
    cat database.txt
    read -p "Enter the entry which you want to delete :" line
    sed "/^$line /d" database.txt > test.txt
esac
```

GNU nano 6.2

q3.sh

```
zero=0
pos=0
neg=0

for i in {1..10}
do
    read -p "enter 10 numbers " num
    if [ $num -eq 0 ]
    then
        ((zero++))
    elif [ $num -lt 0 ]
    then
        ((neg++))
    elif [ $num -gt 0 ]
    then
        ((pos++))
    fi
done

echo "you have enter $zero zeroes, $pos positive nos & $neg negative nos"
```

```
dbda@IACSD:~$ bash q3.sh
enter 10 numbers 2
enter 10 numbers 0
enter 10 numbers -8
enter 10 numbers -9
enter 10 numbers 0
enter 10 numbers -6
enter 10 numbers 6
enter 10 numbers 0
enter 10 numbers -7
enter 10 numbers 6
you have enter 3 zeroes, 3 positive nos & 4 negative nos
dbda@IACSD:~$
```

GNU nano 6.2

q4ag.sh *

```
array+=()  
  
for i in {1..5}  
do  
    read -p "Enter 5 numbers" num  
    array+=($num)  
done  
ary=(`printf '%s\n' "${array[@]}" | sort -n`)  
echo "Largest value you entered ${ary[4]}"  
echo "Lowest value you entered ${ary[0]}"
```



```
dbda@IACSD:~$ bash q4ag.sh
Enter 5 numbers-1
Enter 5 numbers8
Enter 5 numbers0
Enter 5 numbers76
Enter 5 numbers-53
Largest value you entered 76
Lowest value you entered -53
dbda@IACSD:~$ bash q4ag.sh
Enter 5 numbers8
Enter 5 numbers7
Enter 5 numbers4
Enter 5 numbers2
Enter 5 numbers7
Largest value you entered 8
Lowest value you entered 2
dbda@IACSD:~$ bash q4ag.sh
Enter 5 numbers-4
Enter 5 numbers-8
Enter 5 numbers-9
Enter 5 numbers-3
Enter 5 numbers-5
Largest value you entered -3
Lowest value you entered -9
dbda@IACSD:~$
```

GNU nano 6.2

q5.sh

#!/bin/bash

read -p "Enter a string: " string

d=\$(rev<<<\$string)

if [\$string == \$d]
then

echo "string is palindrome"

else

echo "string is not palindrome"

fi

```
dbda@IACSD:~$ bash q5.sh
Enter a string: hello
string is not palindrome
dbda@IACSD:~$ bash q5.sh
Enter a string: elle
string is palindrome
dbda@IACSD:~$
```

GNU nano 6.2

q6.sh

```
echo -n "Enter a number"
read n

while [ $n -gt 0 ]
do
    mod=$((n % 10))
    sum=$((sum + mod))
    n=$((n / 10))
done

echo "sum is $sum"
```

```
dbda@IACSD:~$ bash q6.sh
Enter a number234
sum is 9
dbda@IACSD:~$
```

```
Enter 2 to delete user
Enter 3 to create group
Enter 4 to delete group
1
Enter the name of the user to adduser
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
user:x:1008:1008::/home/user:/bin/sh
dbda@IACSD:~$ bash q7.sh
Enter 1 to create user
Enter 2 to delete user
Enter 3 to create group
Enter 4 to delete group
2
Enter the name of the user to deleteuser
Removing user `user' ...
Warning: group `user' has no more members.
Done.
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
```

GNU nano 6.2

q7.sh

```
echo "Enter 1 to create user"
echo "Enter 2 to delete user"
echo "Enter 3 to create group"
echo "Enter 4 to delete group"

read n

case $n in
  1)
    echo -n "Enter the name of the user to add"
    read m
    sudo useradd $m
    cat /etc/passwd | grep "$m"
    ;;
  2)
    echo -n "Enter the name of the user to delete"
    read u
    sudo deluser $u
    cat /etc/passwd | grep "$u"
    ;;
  3)
    echo -n "Enter the name of the group to add"
    read g
    sudo addgroup $g
    cat /etc/group | grep "$g"
    ;;
  4)
    echo -n "Enter the name of the group to delete"
    read d
    sudo delgroup $d
    cat /etc/group | grep "$d"
esac
```

```
dbda@IACSD:~$ bash q7.sh
```

```
Enter 1 to create user
```

```
Enter 2 to delete user
```

```
Enter 3 to create group
```

```
Enter 4 to delete group
```

```
3
```

```
Enter the name of the group to addusersssss
```

```
Adding group `usersssss' (GID 1008) ...
```

```
Done.
```

```
usersssss:x:1008:
```

```
dbda@IACSD:~$ bash q7.sh
```

```
Enter 1 to create user
```

```
Enter 2 to delete user
```

```
Enter 3 to create group
```

```
Enter 4 to delete group
```

```
4
```

```
Enter the name of the group to deleteusersssss
```

```
Removing group `usersssss' ...
```

```
Done.
```

```
dbda@IACSD:~$
```