

- 1) Shell script to check number of lines, words, characters in a file. nano f1.sh

```
#!/bin/bash
echo "Enter file name"
read f
echo "no of lines:"
wc -l $f
echo "no of words"
wc -w $f
echo "no of char"
wc -c $f
```

Output:

chmod a+x f1.sh
sh f1.sh

Enter filename:

f2.sh

No of lines:

2 f2.sh

No of words:

2 f2.sh

No of char:

9 f2.sh

- 2) Write a shell script to accept n numbers from the user. Display the count and sum of positive numbers and negative numbers separately:

```
#!/bin/bash
echo "Enter the no of elements:"
read n
possum=0
negsum=0
t=0
percent=0
negent=0
while [ $t -lt $n ]
do
echo "Enter:"
read ele
if [ $ele -gt 0 ]
then
poscnt=$(( $poscnt + 1 ))
possum=$(( $possum + $ele ))

```

Output:

Enter the no of elements:

4

Enter: 1

Enter: 2

Enter: 4

Enter: -6

The positive count is: 2

The negative count is: 2

The sum of positive numbers is: 5

The sum of negative numbers is: -8

```
elif [ $ele -lt 0 ]
```

```
then
```

```
negcnt=$((negcnt + 1))
```

```
negsum=$((negsum + $ele))
```

```
fi
```

```
t=$((t + 1))
```

```
done
```

```
echo "The positive count is: $poscnt"
```

```
echo "The negative count is: $negcnt"
```

```
echo "The sum of positive numbers is: $possum"
```

```
echo "The sum of negative numbers is: $negsum"
```

3) Write a shell script to find the sum of last two prime numbers that occurs before the entered number

```
#!/bin/bash
```

```
echo "Enter a number"
```

```
read n
```

```
echo "Previous 2 Prime numbers of $n are:"
```

```
c=0
```

```
for ((N=$n-1; N>1; N--))
```

```
do
```

```
f=0
```

```
for ((j=1; j<=$N; j++))
```

```
do
```

```
if [ $((($N % j)) -eq 0)
```

```
then
```

```
f=$((f + 1))
```

```
fi
```

```
done
```

```
if [ $f -eq 2 ] && [ $c -lt 2 ]
```

```
then
```

```
echo $N
```

```
c=$((c + 1))
```

```
fi
```

```
done
```

Output: Enter a number: 8

prime number: 7 5

Sum = 12

4) Write a shell script to print the following pattern

```

      *
    * * *
  * * * * *
* * * * * *
* * * * *
  * * * *
    * * *
      *

```

```
#!/bin/bash
```

```
for ((i=1; i<6; i++))
```

```
do
  for ((j=1; j<=6-i; j++))
```

```
do
  echo -n " "
```

```
do
  for ((j=1; j<=i*2-1; j++))
```

```
do
  echo -n "*";
```

```
done
echo "
```

```
do
  for ((i=4; i>0; i--))
```

```
do
  for ((j=1; j<=6-i; j++))
```

```
do
  echo -n " "
```

```
do
  for ((j=1; j<=i*2-1; j++))
```

```
do
  echo -n "*";
```

```
done
echo " "
```