

LAB-6

1P Program to print the no. of lines, char, words

```
#!/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 characters:"
wc -c $f
```

Output:- Enter file name
 CS.Sh
 no. of lines: 8 CS.Sh
 no. of words: 20 CS.Sh
 no. of character: 162 CS.Sh.

2P Program to find count & sum of +ve, -ve numbers

```
#!/bin/bash
echo "Enter no. of elements"
read n
psum=0
nsum=0
pcnt=0
ncnt=0
i=0
while [ $i -lt $n ]
do
```

```

read ele
if [ $ele -gt 0 ]
then
pcnt = $(($pcnt+1))
psum = $(($psum+$ele))
elif [ $ele -lt 0 ]
then
ncnt = $(($ncnt+1))
nsum = $(($nsum+$ele))
fi
i = $(($i+1))
done
echo " pos count : $pcnt "
echo " neg count : $ncnt "
echo " pos sum : $psum "
echo " neg sum : $nsum "

```

Output:- Enter the no. of elements
5 1 2 -3 4 -5

pos count: 3
neg count: 2
pos sum: 7
neg sum: -8

3P. #!/bin/bash

```

echo " Enter a number "
read n
echo " previous & prime numbers are "
c=0
for ((N=$n; 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 numbers: 7 5
 Sum = 12

4P Print the pattern:-

```

#!/bin/bash
for ((i=1; i<6; i++))
{
    for ((j=1; j<6-i; j++))
    {
        echo -n " "
    }
    for ((q=1; q<=i*2; q++))
    {
        echo -n "*";
    }
    echo " "
}

```

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

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

```
{
```

```
echo -n "I "
```

```
}
```

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

```
{
```

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

```
}
```

```
echo " "
```

```
}
```

output:-

```

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

```

line