

week 6 : Shell Script Programs :

1. Write a shell script to check number of lines, words, characters in a file.

name count.sh

⇒ #!/bin/bash

echo "Enter file name:"

read f

lines = `wc -l < \$f`

words = `wc -w < \$f`

echo "Number of lines : \$lines"

echo "Number of words : \$words"

OUTPUT:

Number of lines: 1

Number of words: 5.

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

⇒ echo "Enter Size of list"

read n

pos = 0

neg = 0

for ((N=0; N<\$n; N++))
do

read ARR[\$N]

if [\$((\${ARR[\$N]})) -ge 0]
then

pos=\$((pos+1))

pos=\$((pos+1))

else

neg=\$((neg+1))

neg = \$ ((\$neg + 1))
 j_i

done

echo "Number of positive numbers = \$pos"

echo "Number of negative numbers = \$neg"

sum_p = 0

sum_n = 0

for ((j=0; j<pos; j++))
 do

sum_p = \$ ((\$sum_p + pos[i \$j]))

done

for ((j=0; j<\$neg; j++))
 do

sum_n = \$ ((\$sum_n + neg[i \$j]))

done

echo "Sum of positive numbers = \$sum_p"

echo "Sum of negative numbers = \$sum_n"

OUTPUT:

Enter Size of List

5

4

-5

6

-10

-8

Number of Positive numbers = 2

Number of Negative numbers = 3

Sum of positive numbers = 10

Sum of Negative numbers = -23

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 "Remain 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))

~~done~~ fi

OUTPUT:

Enter a Number

10

Remain 2 Prime numbers of 10 are

7

5

4. Write a shell script to print the following pattern

```

      *
    * * *
  * * * * *
* * * * * * *
* * * * * * * *
  * * * * * *
    * * * *
      *
  
```

2) #!/bin/bash

```

for (i=1; i<=6; i++)
{
  for (j=1; j<=6-i; j++)
  {
    echo -n " "
  }
  for (j=1; j<=i*2-i; j++)
  {
    echo -n "* ";
  }
  echo " "
  for (i=4; i>0; i--)
  {
    for (j=1; j<=6-i; j++)
    {
      echo -n " "
    }
    for (j=1; j<=i*2-1; j++)
    {
      echo -n "* ";
    }
  }
}
  
```

4
 十 十 十
 千 女 女 女 女
 女 女 女 女 女 女
 女 女 女 女 女 女 女
 女 女 女 女 女 女
 女 女 女 女 女
 女 女 女 女 女

well