Date : 20/02/2023

PRACTICAL - 7

Program -1 : WAP to print the Fibonacci Series .

CODE :

```
  UW PICO 5.09                          File: fibbonaciSeries.sh

#Fibonacci Series Program
#!/bin/bash
echo "How many numbers do you want of Fibonacci Series ?"
read total
x=0
y=1
i=2
echo "Fibonacci Series up to $total terms :: "
echo "$x"
echo "$y"
while [ $i -lt $total ]
do
i=`expr $i + 1 `
z=`expr $x + $y `
echo "$z"
x=$y
y=$z
done
```

OUTPUT :

```
student1@AUNDT8952 osLab % ./fibbonaciSeries.sh
How many numbers do you want of Fibonacci Series ?
5
Fibonacci Series up to 5 terms ::
0
1
1
2
3
```

Program - 2 : WAP to generate prime numbers .

CODE :

```
#!/bin/bash
echo "enter a number upto which you want the prime numbers"
read num
count=0
for (( n=2; n<=$num; n++ ))
do
t=1
if [ $n -lt 2 ]
then echo "Please give other  numbers than 0 and 1"
else
#echo $n
for (( i=2; i<$n; i++ ))
do
        #echo $n
        if (($n%i==0))
        then
        #echo "$n is not prime number"
        t=0
        break;
        fi
done
#echo $t
        if [ $t == 1 ]
        then
        echo "$n is a prime number"
        count=`expr $count + 1`
        fi
fi
done
echo "Total prime numbers upto $num are $count "
```

OUTPUT:

```
student1@AUNDT8952 osLab % ./primeNumbergen.sh
enter a number upto which you want the prime numbers
5
2 is a prime number
3 is a prime number
5 is a prime number
Total prime numbers upto 5 are 3
```