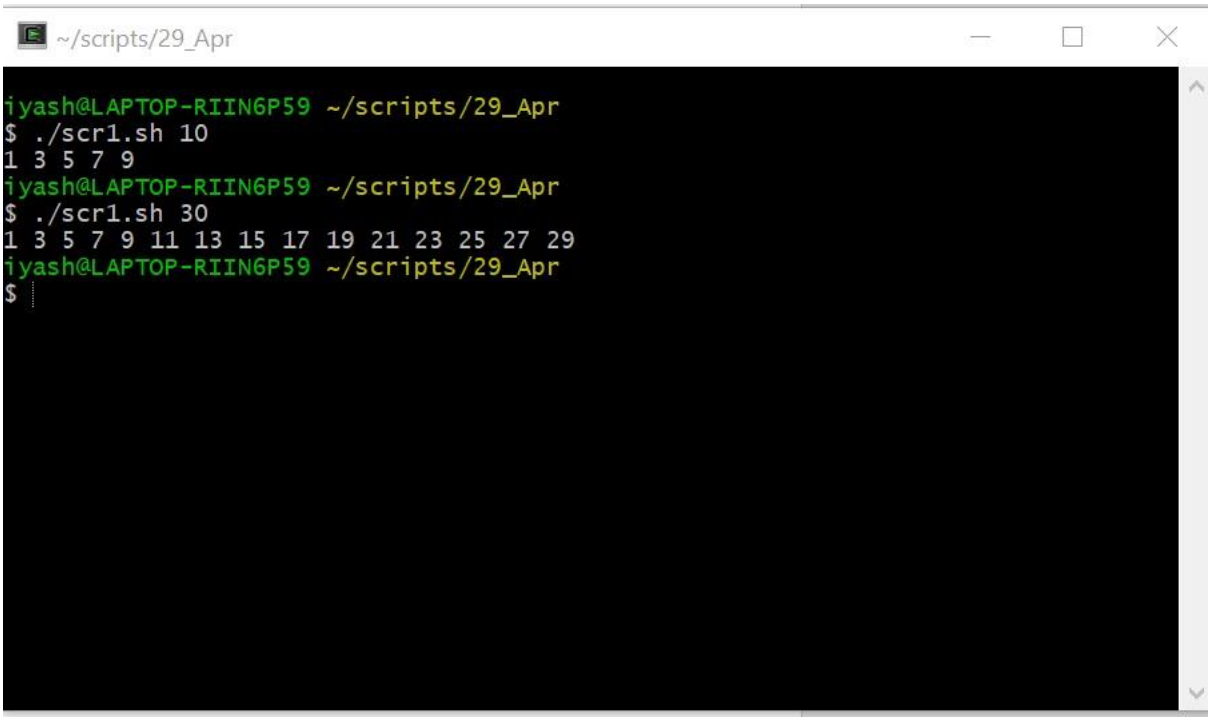
1. Write a shell script to display odd numbers from 1 to n. Accept number as a command line argument.

Script –

```
#!/bin/bash

num=$1

for (( i=1; i <= $num; i++ )) do

 a=`expr $i % 2`

if [ $a -ne 0 ]

 then    echo -

n "$i "

 fi

done
```

Output –



2. Write a shell script to check type of tybsc subjects using case statements.

Script – #!/bin/bash

CHOICE=5

until [$CHOICE -eq 4] do echo -n -e "Choose a number for

Corresponding Course ::\n" echo "1 :: MSc" echo "2 :: MBA"

echo "3 :: BSc" echo "4 :: Exit the Program" read CHOICE

case $CHOICE in

1) echo "The Course is MSc";;

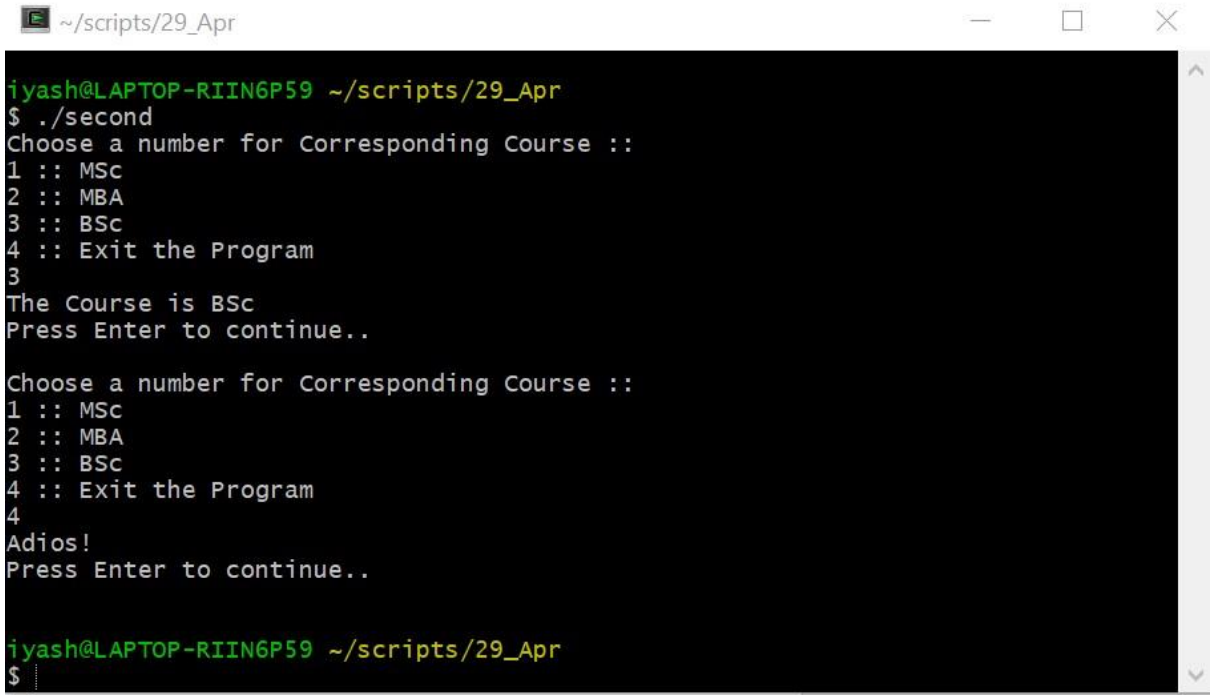
2) echo "The Course is MBA";;

3) echo "The Course is BSc";;

4) echo "Adios!";; *) echo "Invalid Input !";; esac echo "Press

Enter to continue.." read ENTER done

Output –



3. Write a shell script to display the reverse numbers from nine to zero using while loop.

Script –

#!/bin/bash

number=9

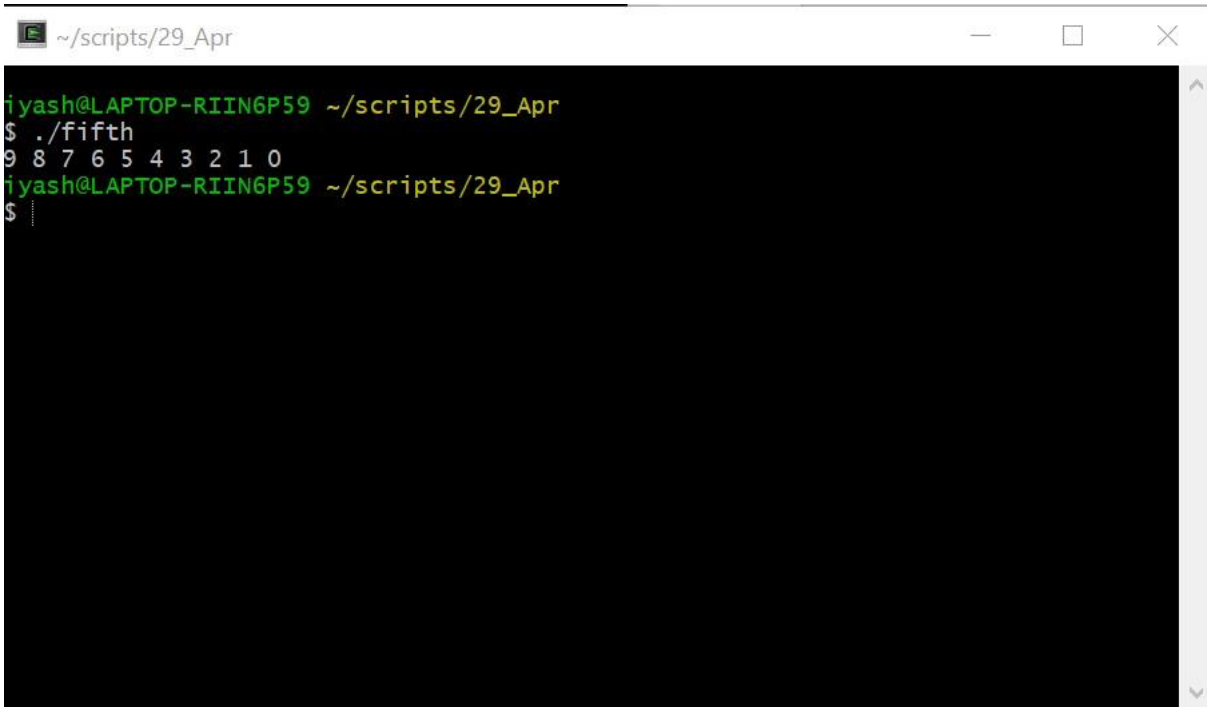
while ["$number" -ge 0]

do echo -n "$number "

sleep 1

number=`expr $number - 1` done

Output –



4. Write a shell script to find the factorial of a given number

Script – #!/bin/sh echo -n

"Enter a number ::"

read num fact=1

for((i=2;i<=num;i++))

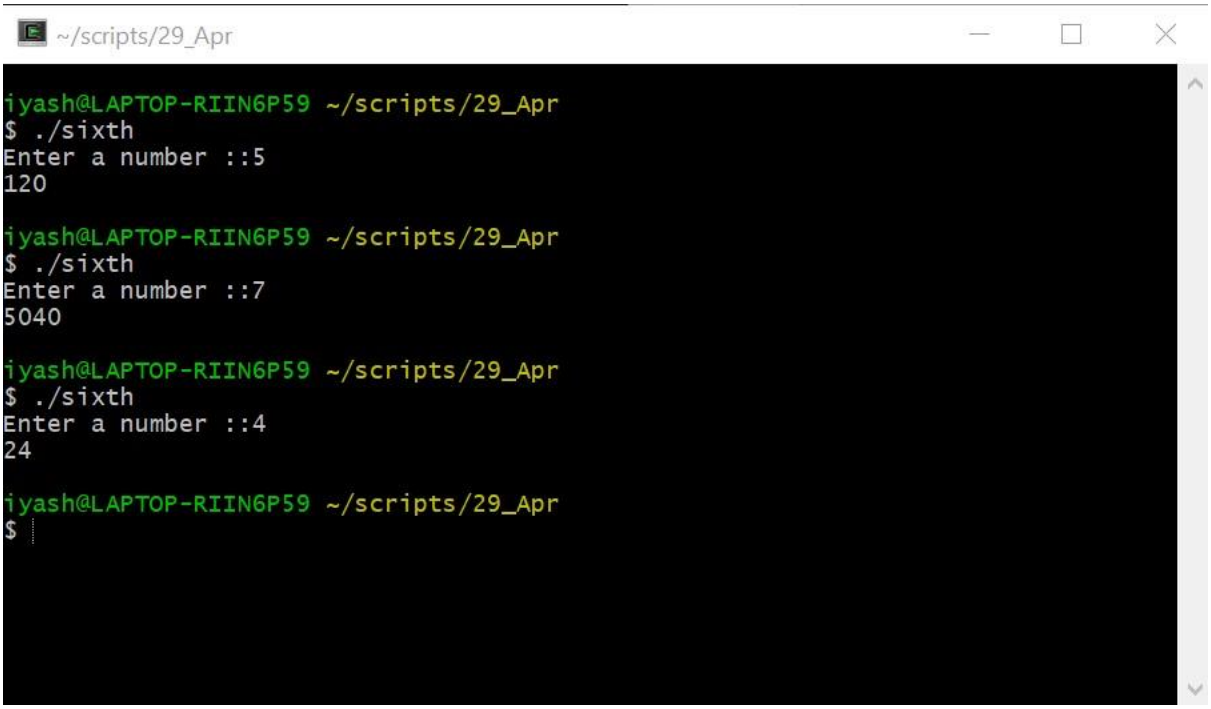
{

fact=$((fact * i)) #fact = fact * i

}

echo $fact Output

–

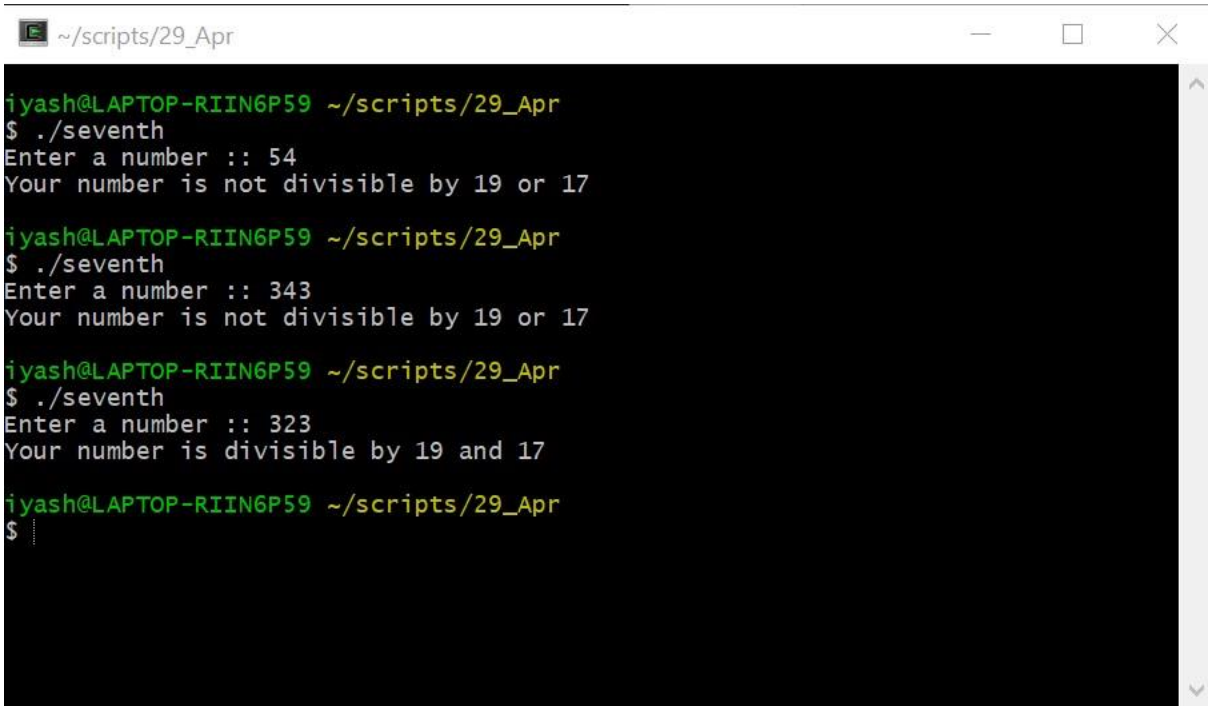


5. Write single if condition to check number is divisible by 17 and 19

Script –

```
#!/bin/bash echo -n "Enter
a number :: " read number
if [ $(( $number % 17 )) -eq 0 ] && [ $(( $number % 19 )) -eq 0 ]
then     echo "Your number is divisible by 19 and 17" else
echo "Your number is not divisible by 19 or 17"
fi
```

Output –



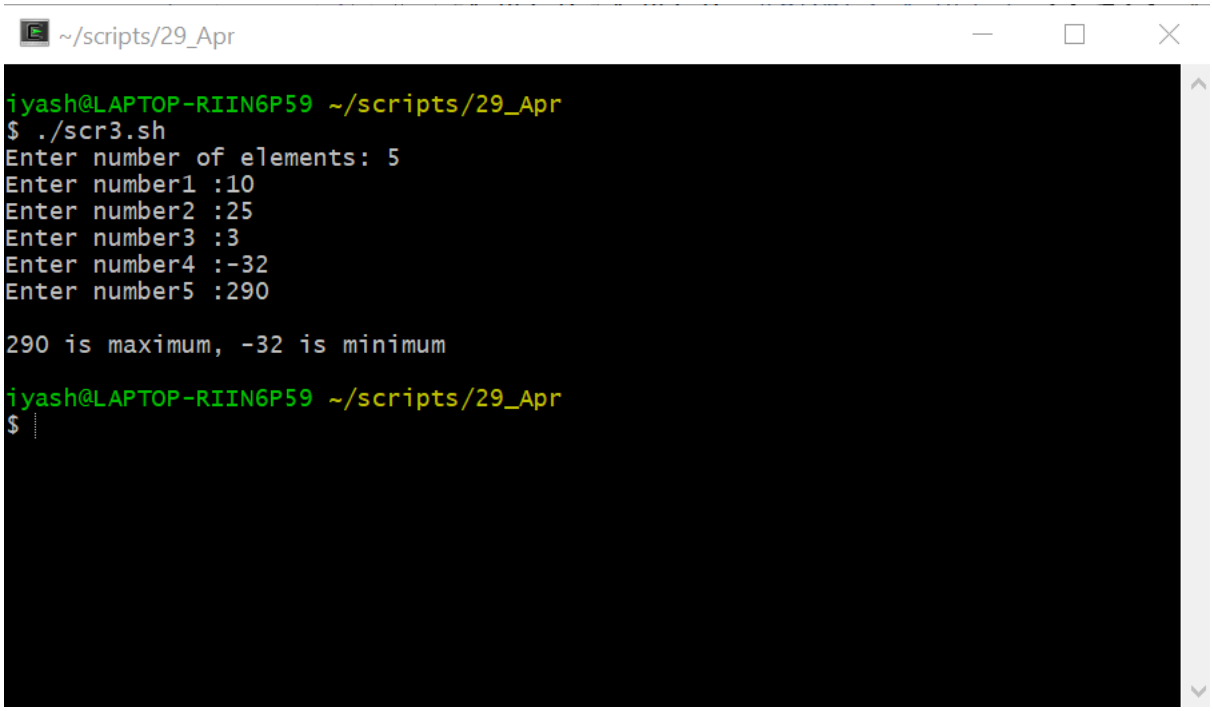
6.Write a shell script to find maximum and minimum of given n numbers.

Script –

```
#!/bin/bash
echo -n "Enter number of elements: "
read n

i=1
max=0
min=0

while [ $i -le $n ]
do
  echo -n "Enter number$i :"
  read num
  if [ $i -eq 1 ]
  then
   max=$num
   min=$num
  else
   if [ $num -gt $max ]
   then
    max=$num
   fi
   if [ $num -lt $min ]
   then
    min=$num
   fi
```

```
  fi
  i=$(( i + 1 ))
 done
 echo " "
 echo "$max is maximum, $min is minimum"
```

Output –



7. Write a shell script to create a directory, change directory and rename the directory.

Script –

```
#!/bin/bash
echo "1)Create a Directory."
echo "2)Change to a directory."
echo "3)To rename a direcotry."
echo -n "Enter your choice:: "
read CHOICE

case $CHOICE in
  1) echo -n "Enter directory name:: "
    read dirname
    mkdir $dirname
    echo "$dirname directory created in current directory!"
    ;;
  2) echo -n "Enter directory name:: "
    read dirname
    echo "You were in this directory... "
    pwd
    cd $dirname
    echo "Now you're in this directory..."
```

```
    pwd
    ;;
 3) echo -n "Enter old directory name:: "
    read olddirname
    echo -n "Enter new directory name:: "
    read newdirname
    echo "directories previously.."
    ls -d */                    #displays only the directory's name, if you remove the -d option will also display
directories content
    mv $olddirname $newdirname
    echo "directories now..."
    ls -d */
    ;;
 *) echo "Inavlid Choice!!!"
   ;;
esac
```

Output –