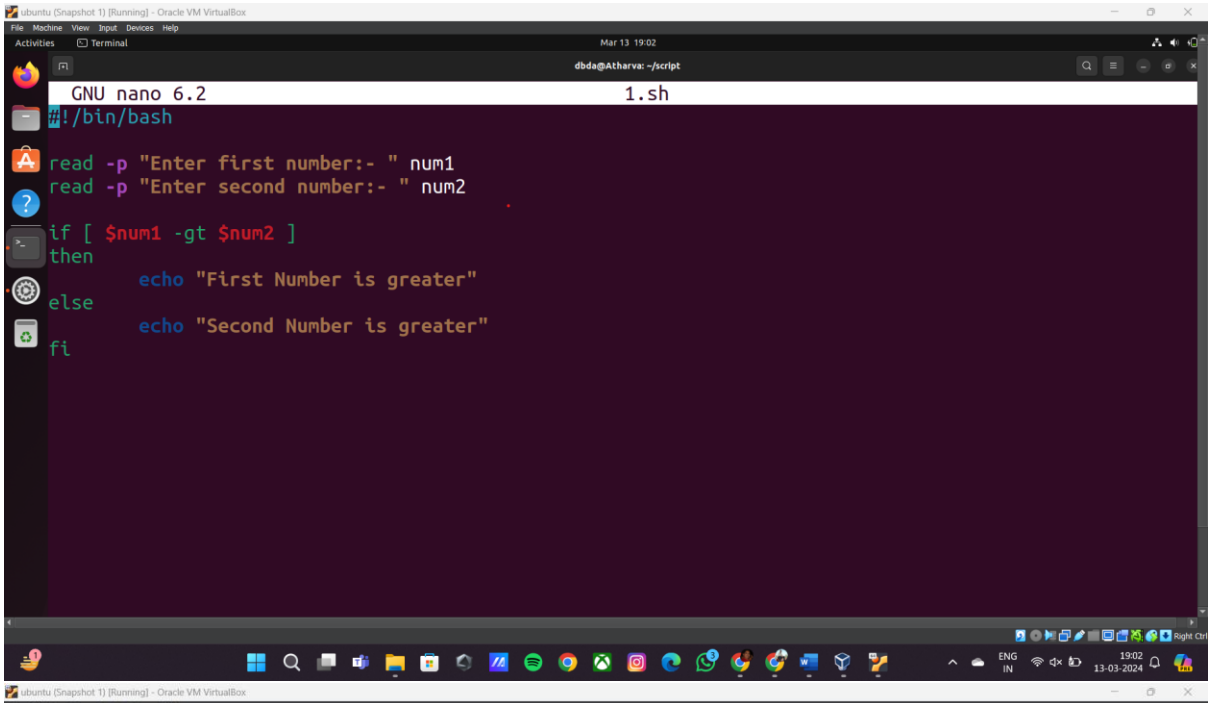
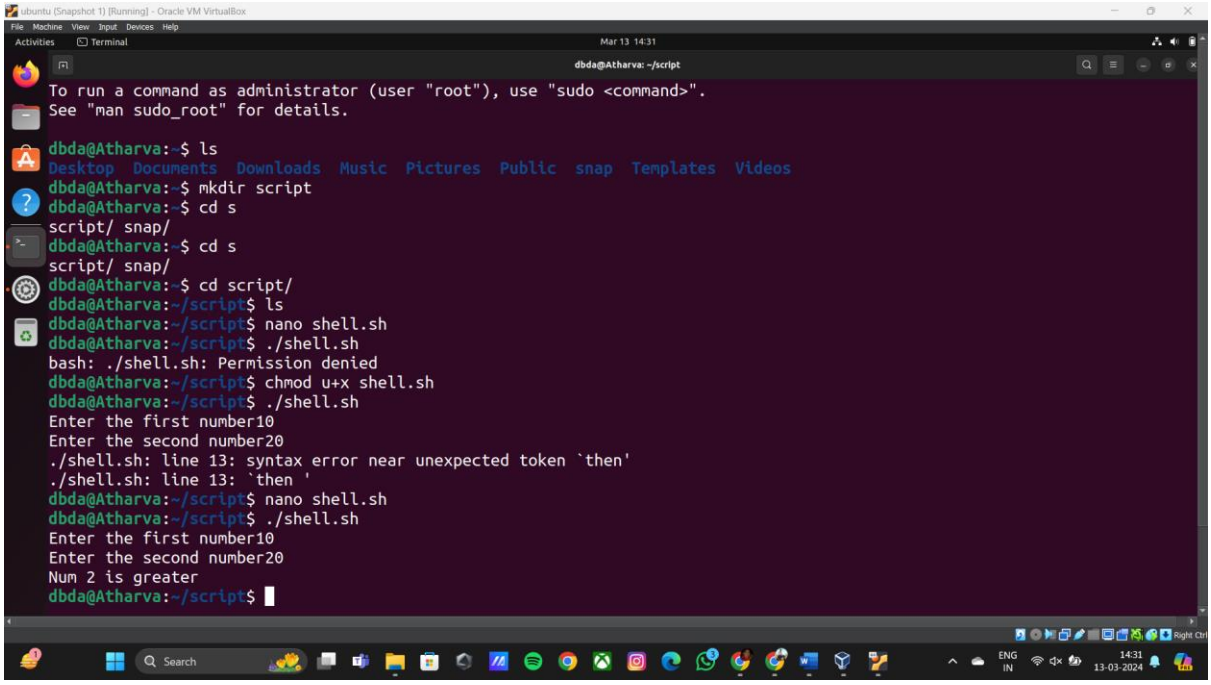
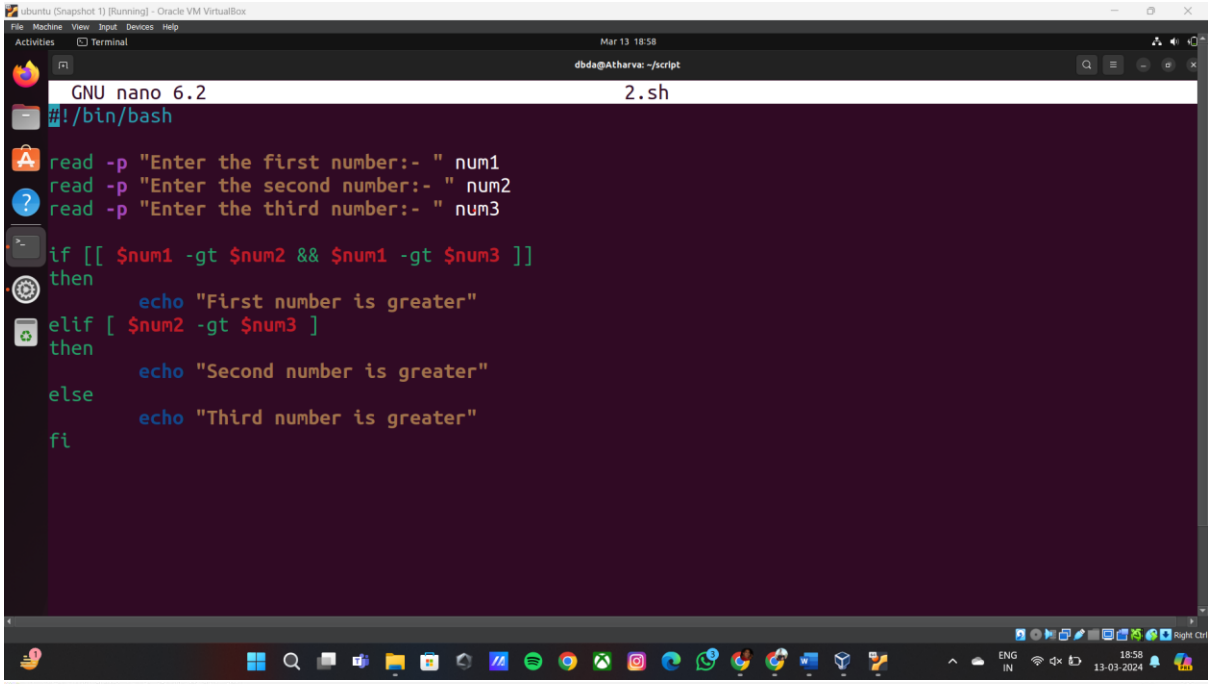
ROLL NO:- 243557

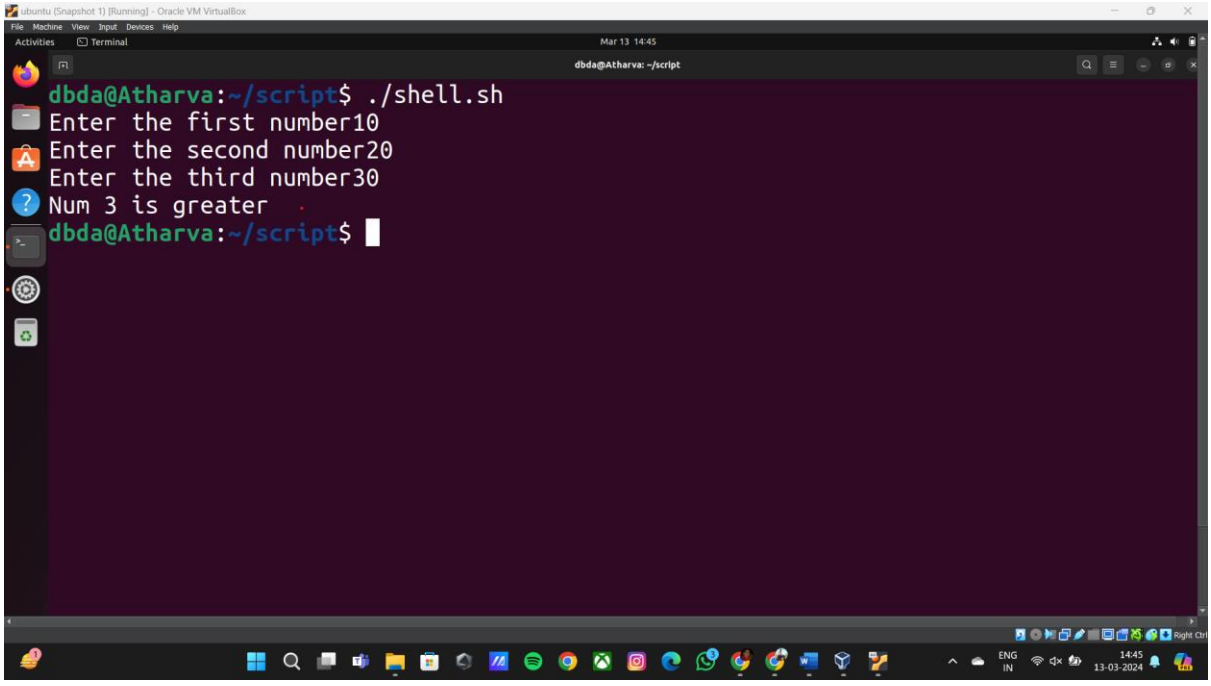
QUES 1:-



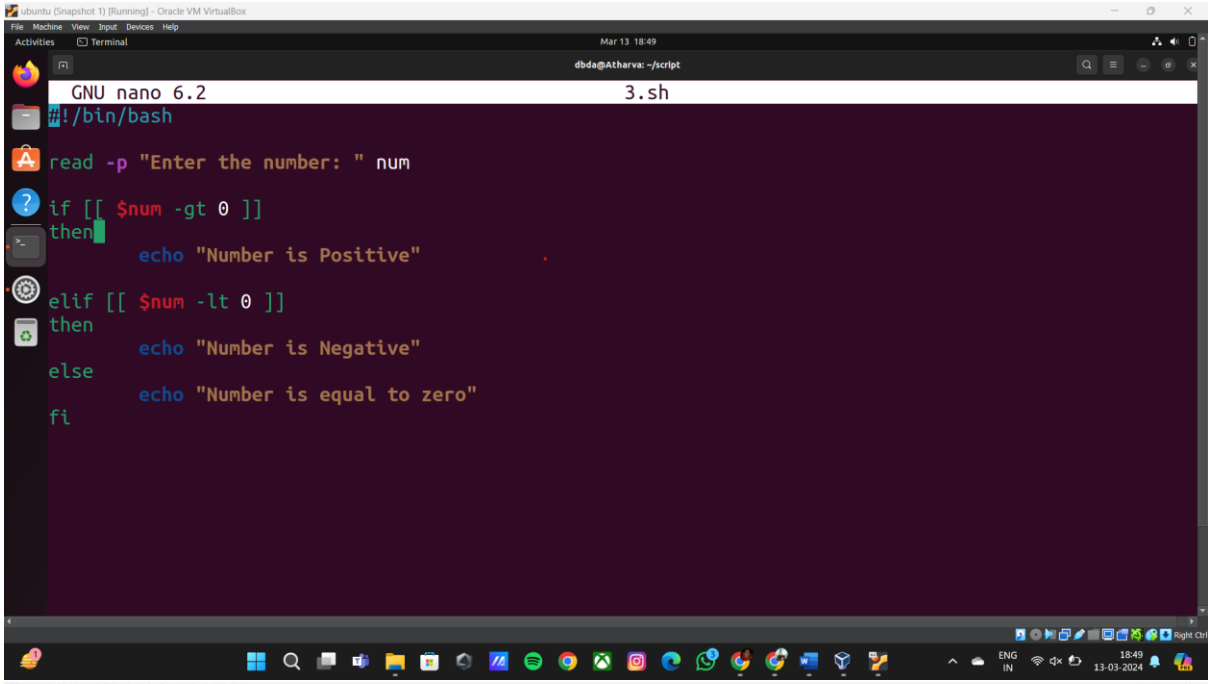


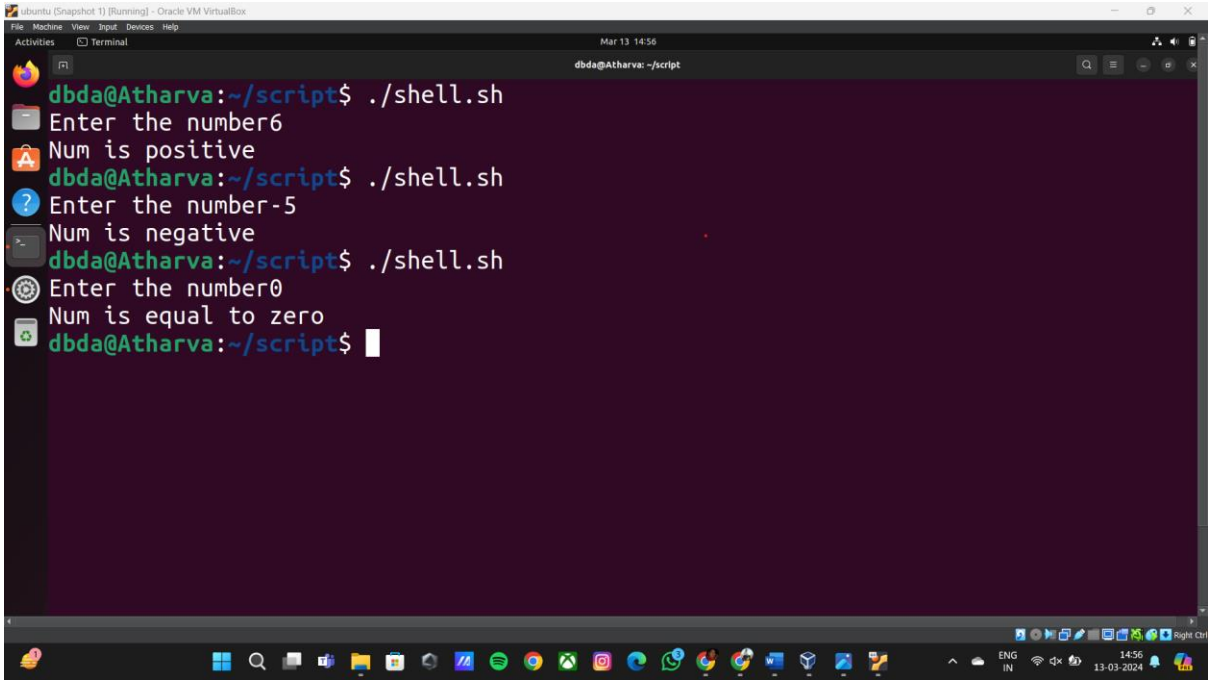
QUES 2:-


ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Mar 13 18:58
dbda@Atharva: ~/script
GNU nano 6.2
2.sh
#!/bin/bash
read -p "Enter the first number:- " num1
read -p "Enter the second number:- " num2
read -p "Enter the third number:- " num3
if [[$num1 -gt $num2 && $num1 -gt $num3]]
then
echo "First number is greater"
elif [$num2 -gt $num3]
then
echo "Second number is greater"
else
echo "Third number is greater"
fi
ENG
IN
18:58
13-03-2024

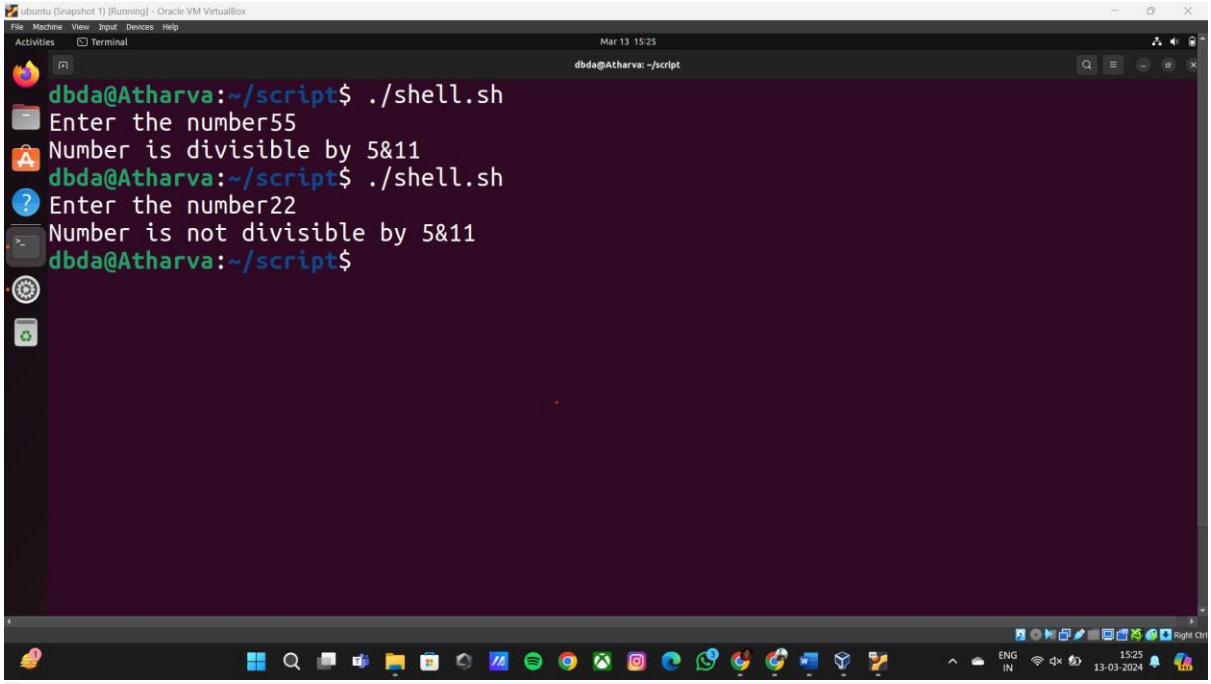

ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Mar 13 14:45
dbda@Atharva: ~/script
dbda@Atharva:~/script$ ./shell.sh
Enter the first number10
Enter the second number20
Enter the third number30
Num 3 is greater
dbda@Atharva:~/script$
ENG
IN
14:45
13-03-2024

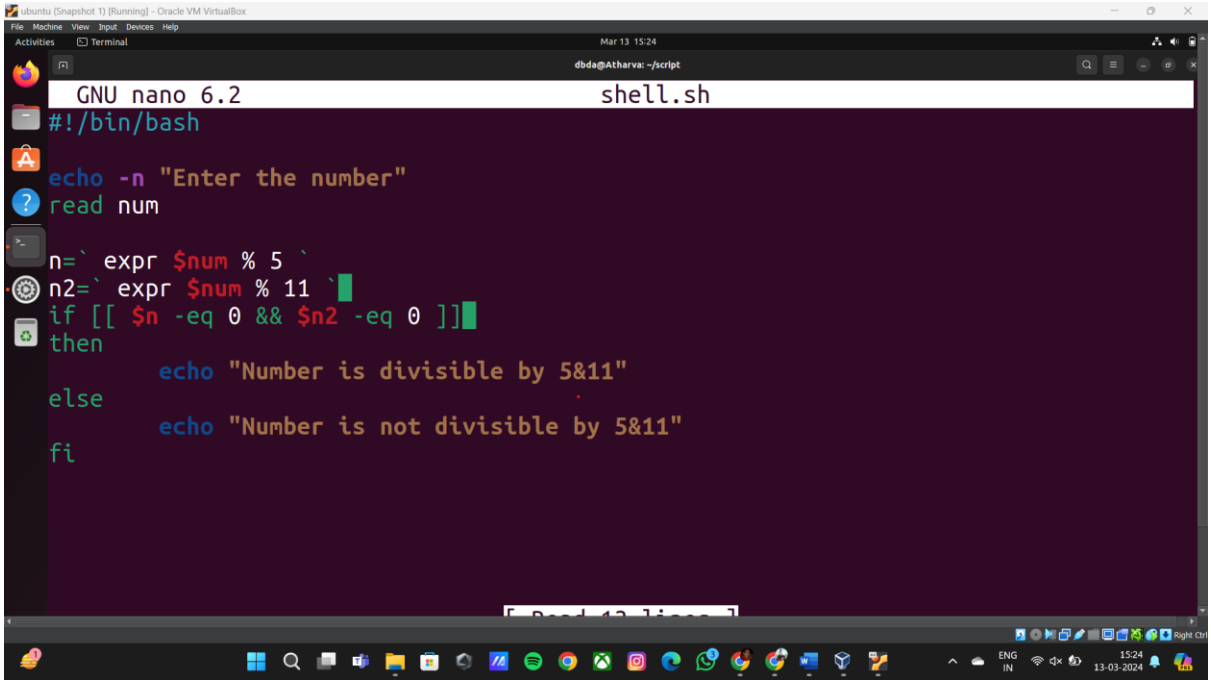
QUES 3:-


GNU nano 6.2 3.sh
#!/bin/bash
read -p "Enter the number: " num
if [[$num -gt 0]]
then
echo "Number is Positive"
elif [[$num -lt 0]]
then
echo "Number is Negative"
else
echo "Number is equal to zero"
fi

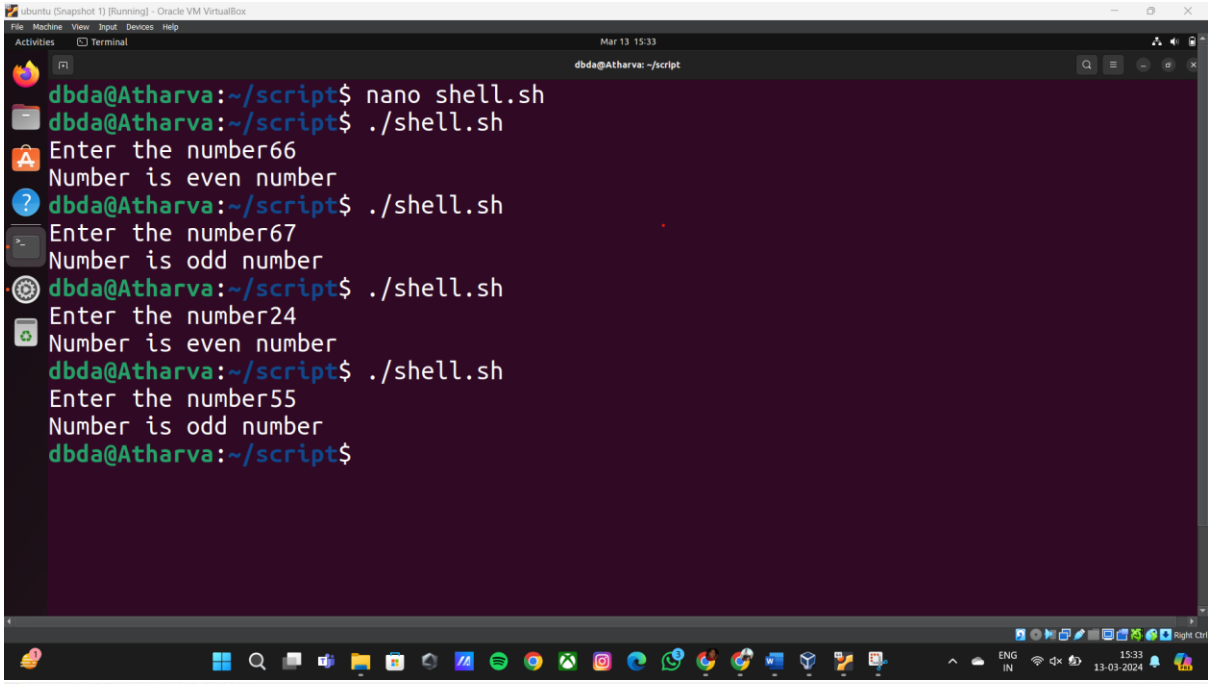

dbda@Atharva:~/script$ ./shell.sh
Enter the number6
Num is positive
dbda@Atharva:~/script$ ./shell.sh
Enter the number-5
Num is negative
dbda@Atharva:~/script$ ./shell.sh
Enter the number0
Num is equal to zero
dbda@Atharva:~/script$

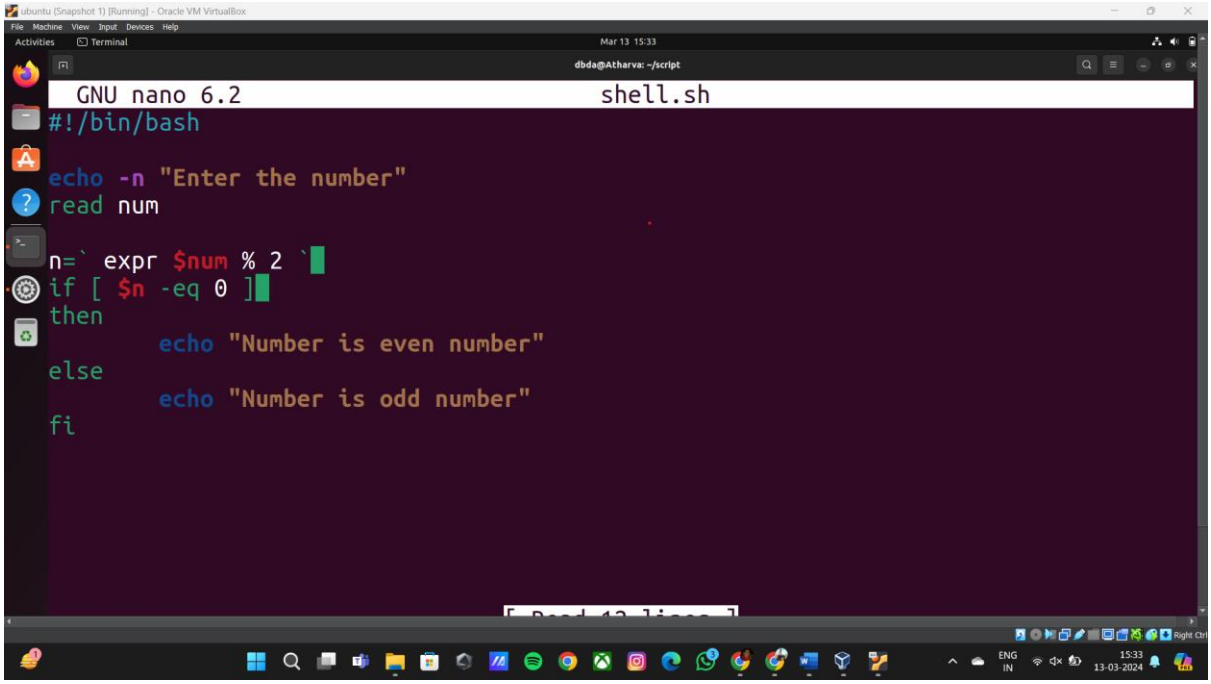
QUES 4:-


dbda@Atharva:~/script$ ./shell.sh
Enter the number55
Number is divisible by 5&11
dbda@Atharva:~/script$ ./shell.sh
Enter the number22
Number is not divisible by 5&11
dbda@Atharva:~/script$

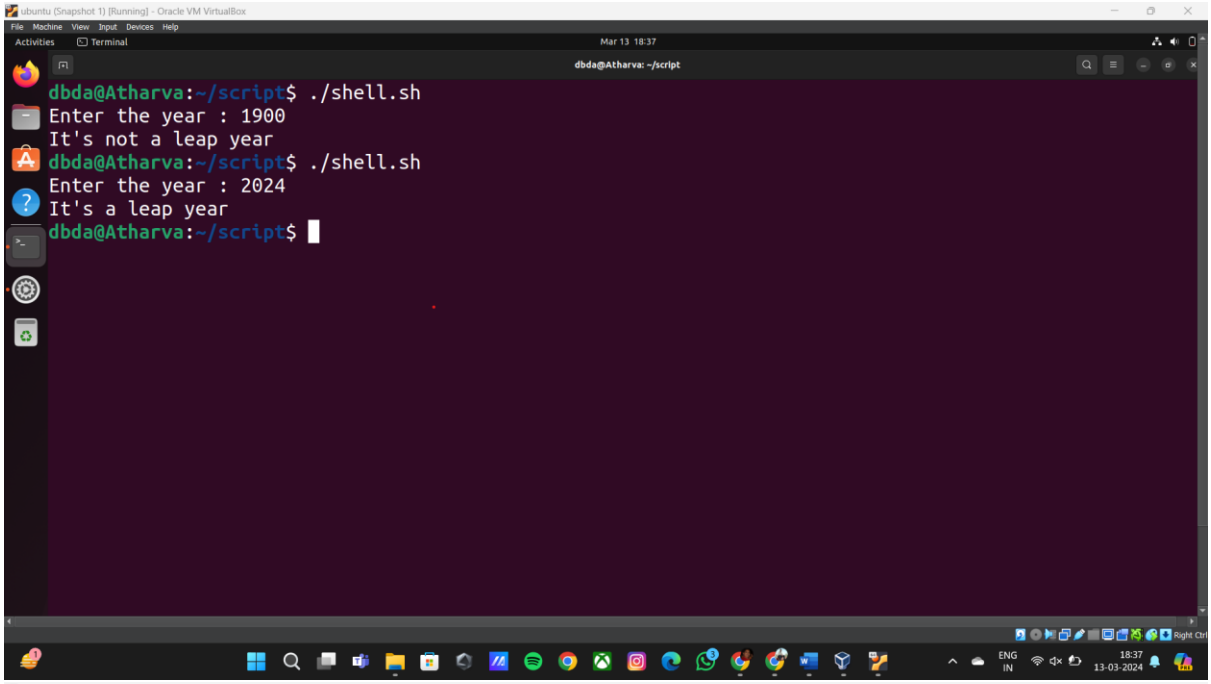

GNU nano 6.2 shell.sh
#!/bin/bash
echo -n "Enter the number"
read num
n=` expr $num % 5 `
n2=` expr $num % 11 `
if [[$n -eq 0 && $n2 -eq 0]]
then
echo "Number is divisible by 5&11"
else
echo "Number is not divisible by 5&11"
fi

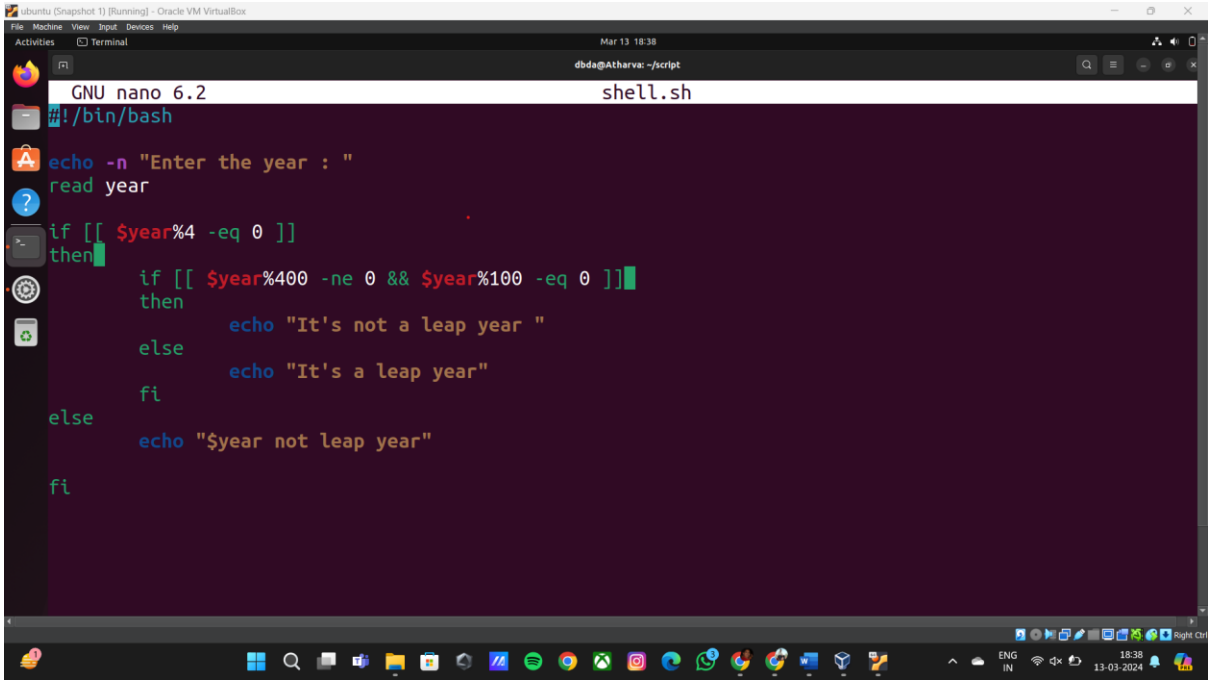
QUES 5:-


dbda@Atharva:~/script$ nano shell.sh
dbda@Atharva:~/script$ ./shell.sh
Enter the number66
Number is even number
dbda@Atharva:~/script$ ./shell.sh
Enter the number67
Number is odd number
dbda@Atharva:~/script$ ./shell.sh
Enter the number24
Number is even number
dbda@Atharva:~/script$ ./shell.sh
Enter the number55
Number is odd number
dbda@Atharva:~/script$

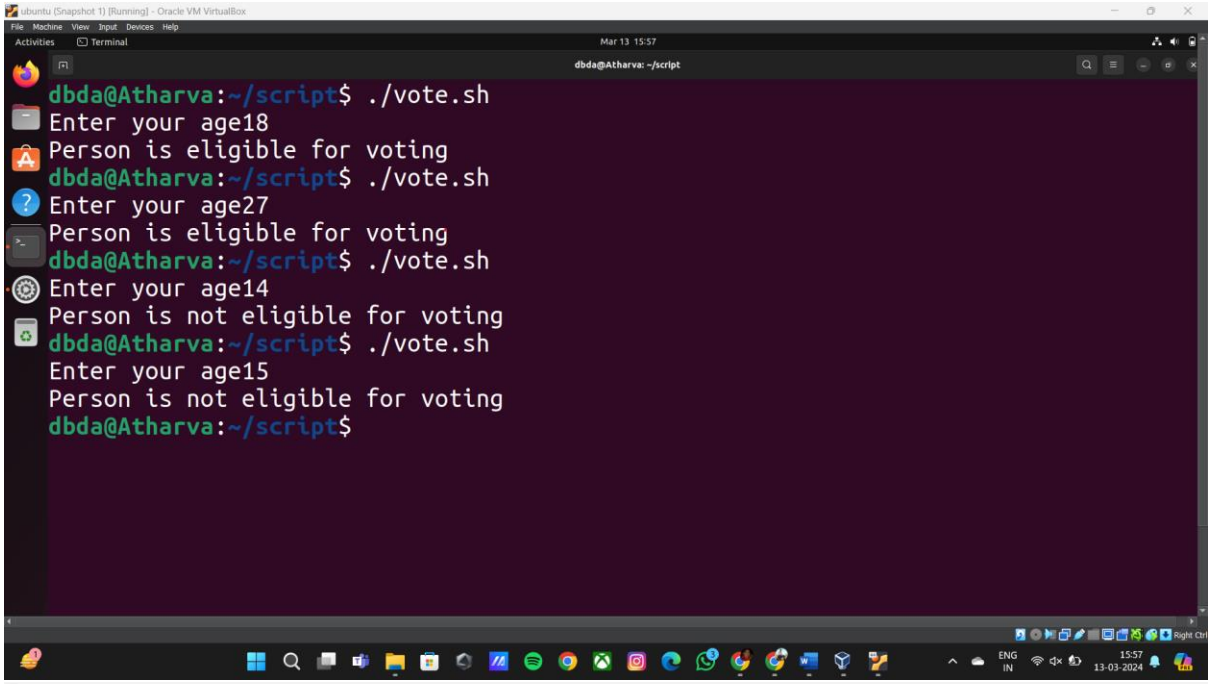

GNU nano 6.2 shell.sh
#!/bin/bash
echo -n "Enter the number"
read num
n=` expr $num % 2 `
if [$n -eq 0]
then
echo "Number is even number"
else
echo "Number is odd number"
fi

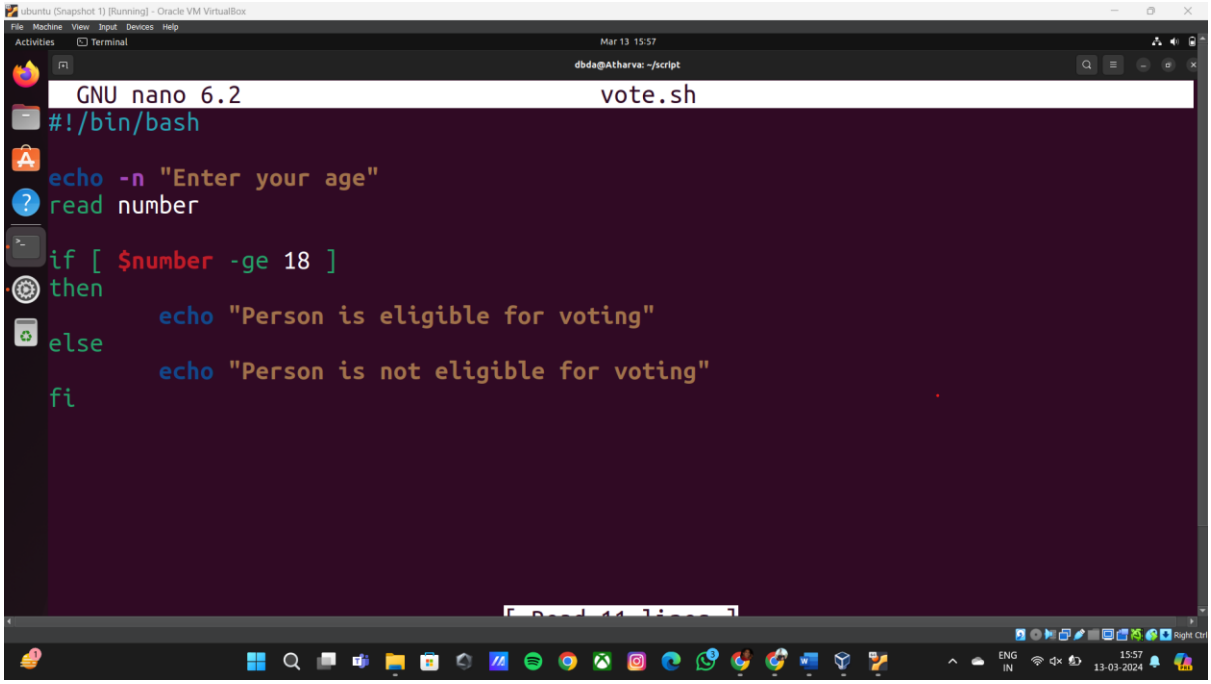
QUES 6:-


dbda@Atharva:~/script$ ./shell.sh
Enter the year : 1900
It's not a leap year
dbda@Atharva:~/script$ ./shell.sh
Enter the year : 2024
It's a leap year
dbda@Atharva:~/script$

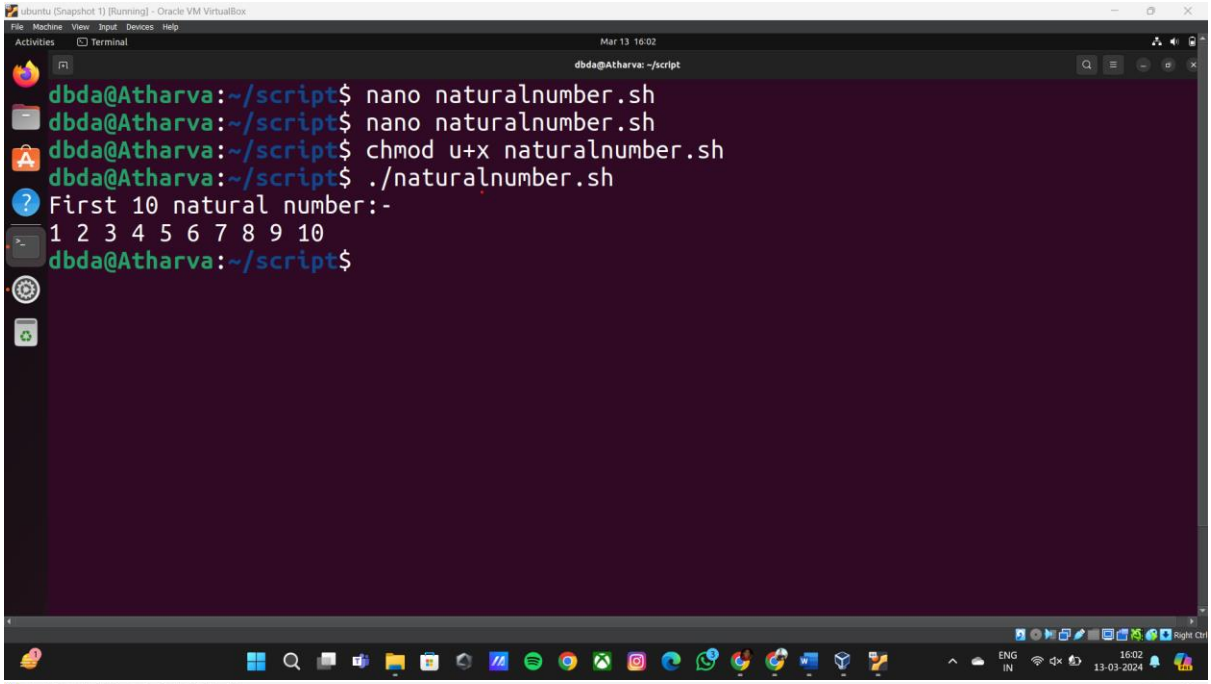

GNU nano 6.2 shell.sh
#!/bin/bash
echo -n "Enter the year : "
read year
if [[$year%4 -eq 0]]
then
if [[$year%400 -ne 0 && $year%100 -eq 0]]
then
echo "It's not a leap year "
else
echo "It's a leap year"
fi
else
echo "$year not leap year"
fi

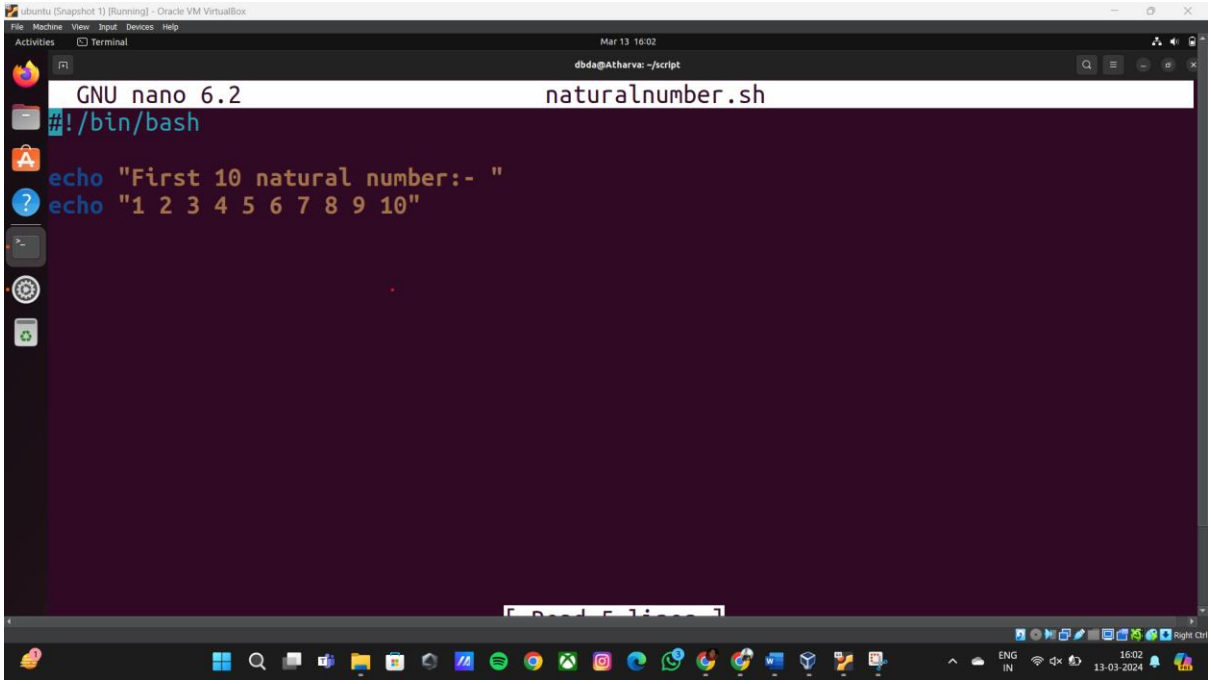
QUES 7:-


dbda@Atharva:~/script$ ./vote.sh
Enter your age18
Person is eligible for voting
dbda@Atharva:~/script$ ./vote.sh
Enter your age27
Person is eligible for voting
dbda@Atharva:~/script$ ./vote.sh
Enter your age14
Person is not eligible for voting
dbda@Atharva:~/script$ ./vote.sh
Enter your age15
Person is not eligible for voting
dbda@Atharva:~/script$

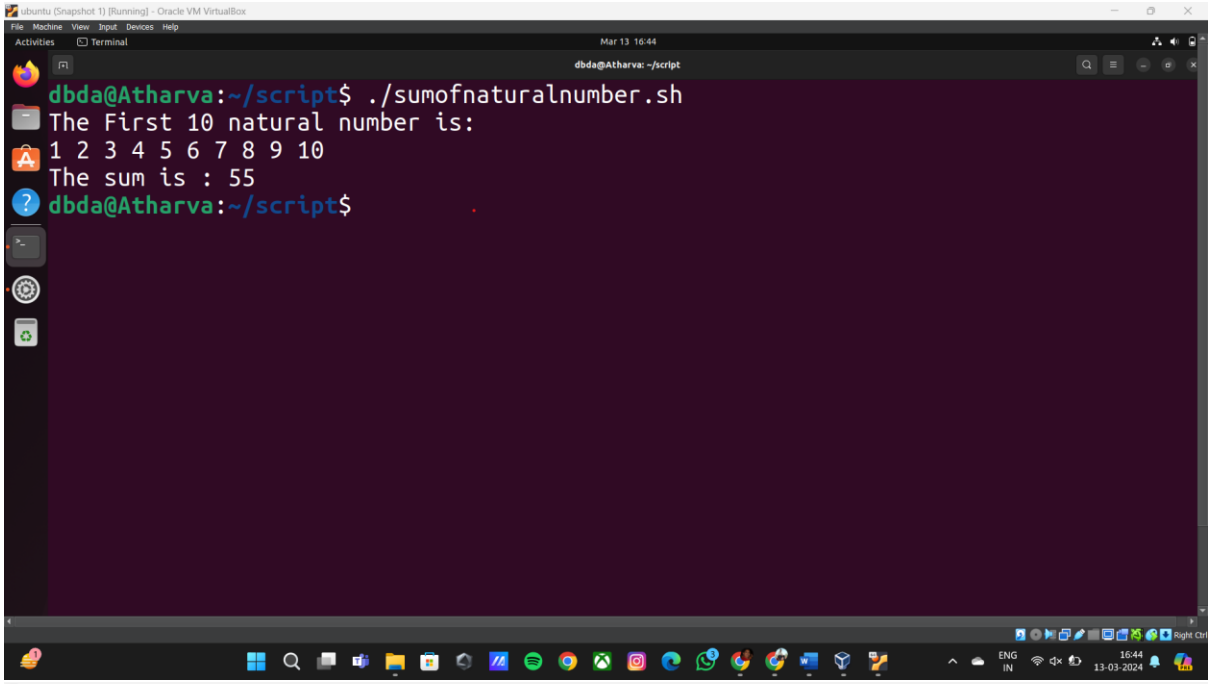

GNU nano 6.2 vote.sh
#!/bin/bash
echo -n "Enter your age"
read number
if [$number -ge 18]
then
echo "Person is eligible for voting"
else
echo "Person is not eligible for voting"
fi

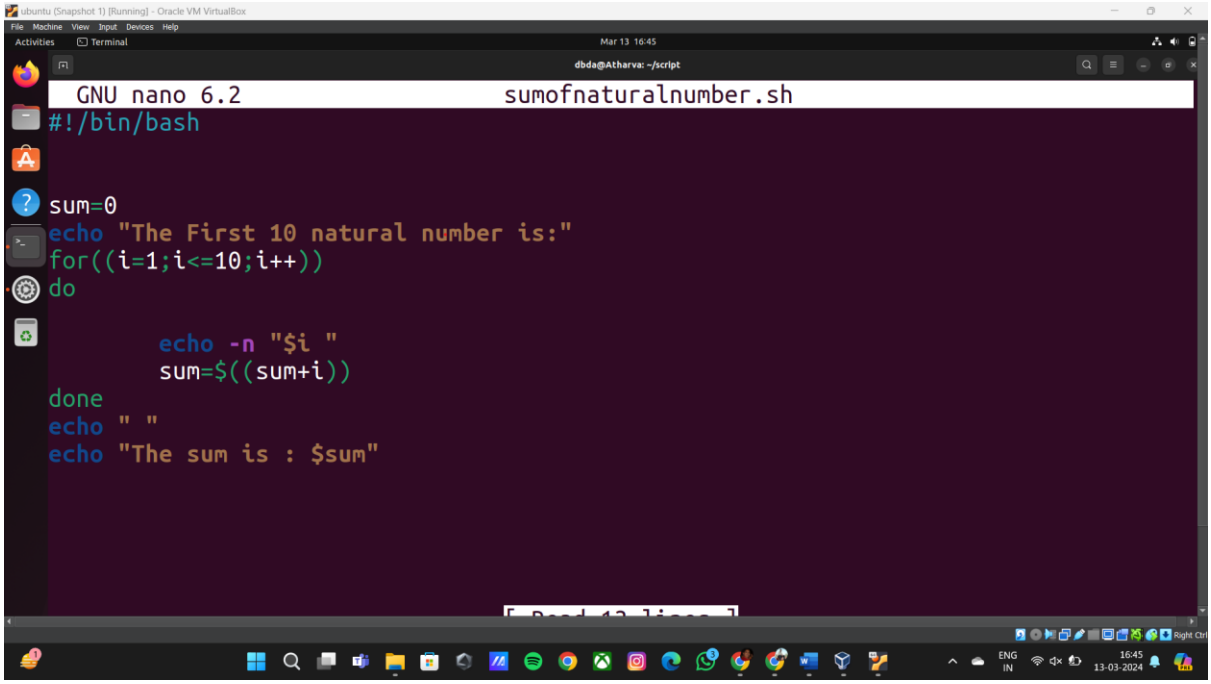
QUES 8:-


ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Mar 13 16:02
dbda@Atharva: ~/script
dbda@Atharva:~/script$ nano naturalnumber.sh
dbda@Atharva:~/script$ nano naturalnumber.sh
dbda@Atharva:~/script$ chmod u+x naturalnumber.sh
dbda@Atharva:~/script$ ./naturalnumber.sh
First 10 natural number:-
1 2 3 4 5 6 7 8 9 10
dbda@Atharva:~/script$
ENG
IN
16:02
13-03-2024

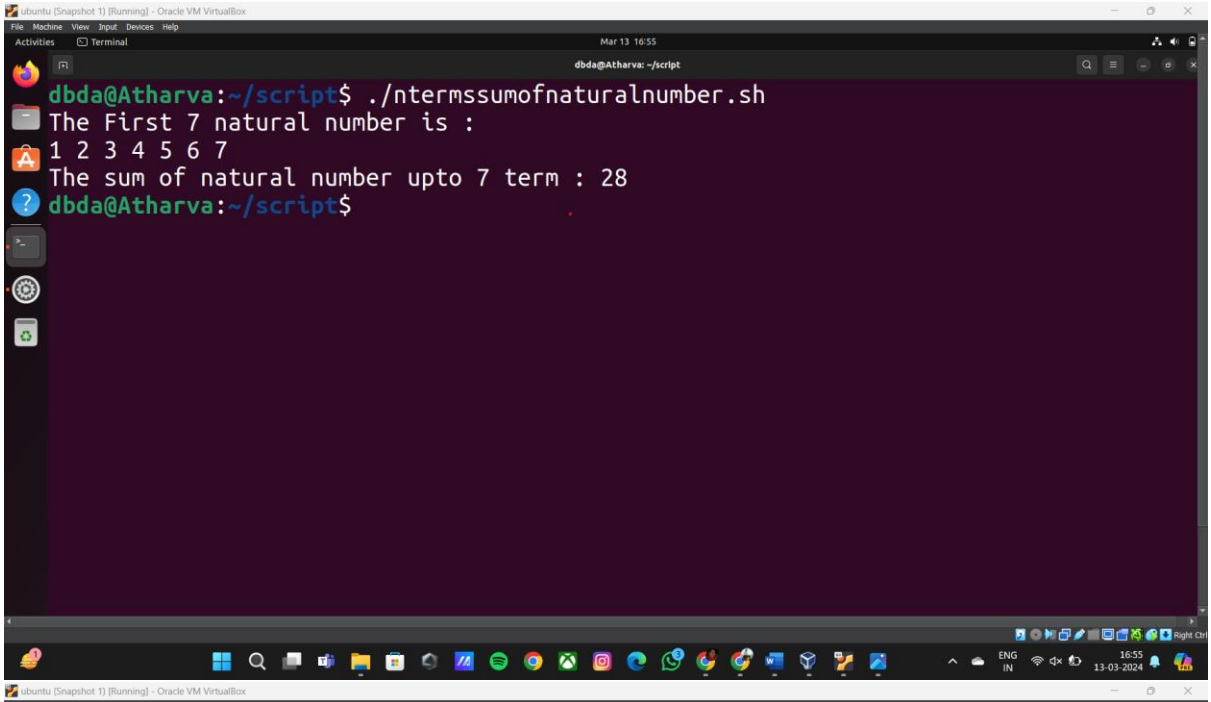

ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Mar 13 16:02
dbda@Atharva: ~/script
GNU nano 6.2 naturalnumber.sh
#!/bin/bash
echo "First 10 natural number:- "
echo "1 2 3 4 5 6 7 8 9 10"
ENG
IN
16:02
13-03-2024

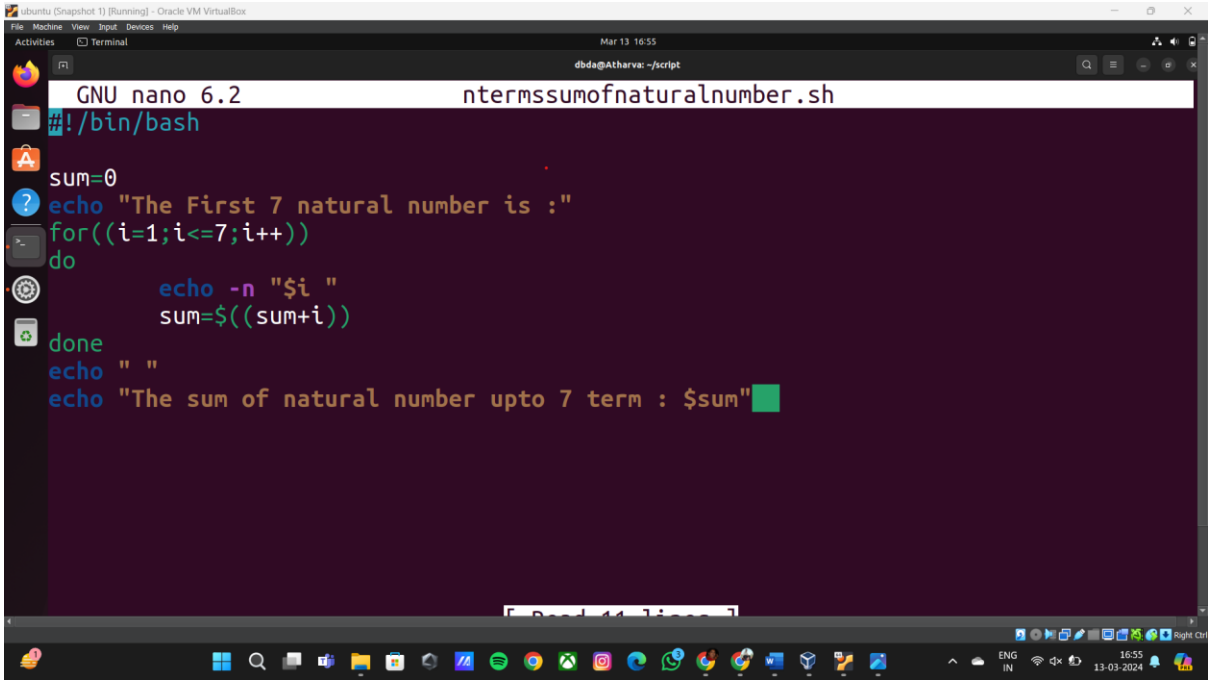
QUES 9:-


dbda@Atharva:~/script$ ./sumofnaturalnumber.sh
The First 10 natural number is:
1 2 3 4 5 6 7 8 9 10
The sum is : 55
dbda@Atharva:~/script$

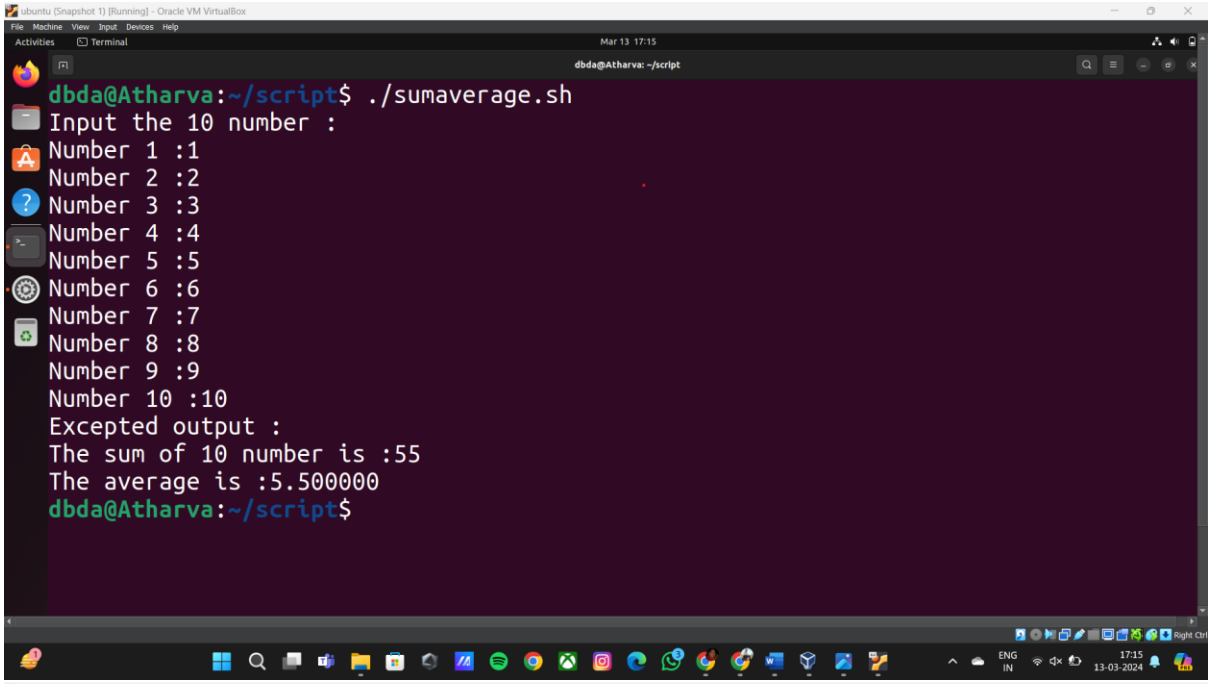

GNU nano 6.2 sumofnaturalnumber.sh
#!/bin/bash
sum=0
echo "The First 10 natural number is:"
for((i=1;i<=10;i++))
do
echo -n "$i "
sum=$((sum+i))
done
echo " "
echo "The sum is : $sum"

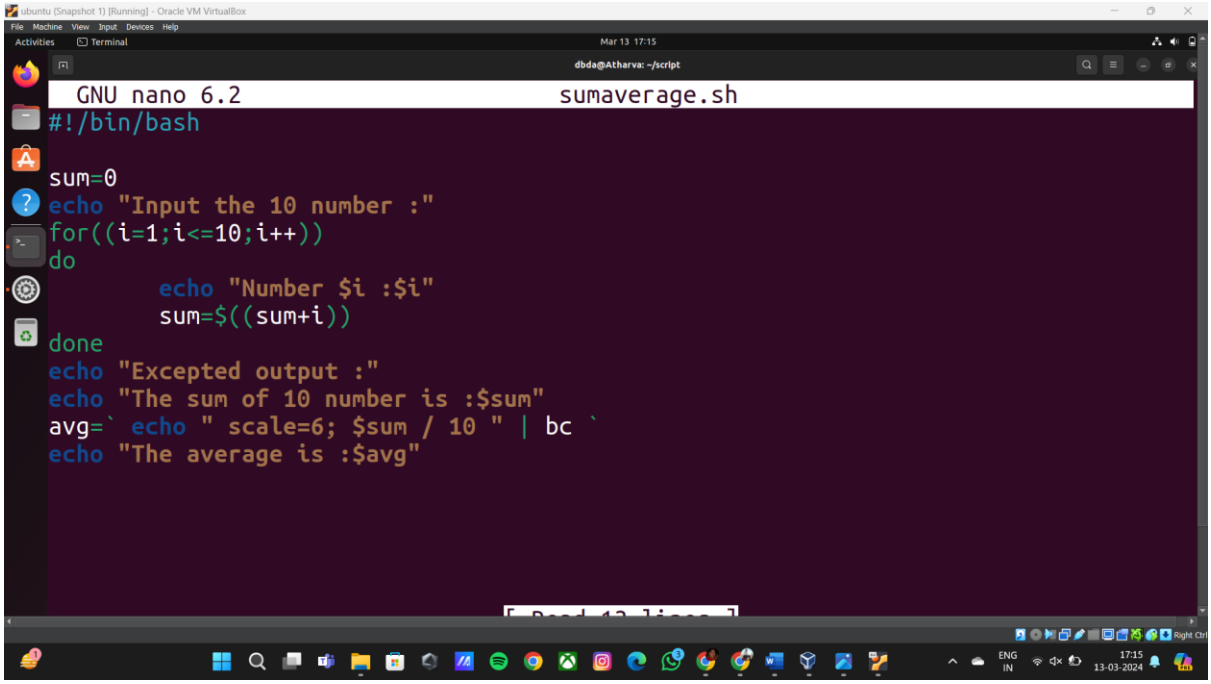
QUES 10:-


dbda@Atharva:~/script$ ./ntermssumofnaturalnumber.sh
The First 7 natural number is :
1 2 3 4 5 6 7
The sum of natural number upto 7 term : 28
dbda@Atharva:~/script$

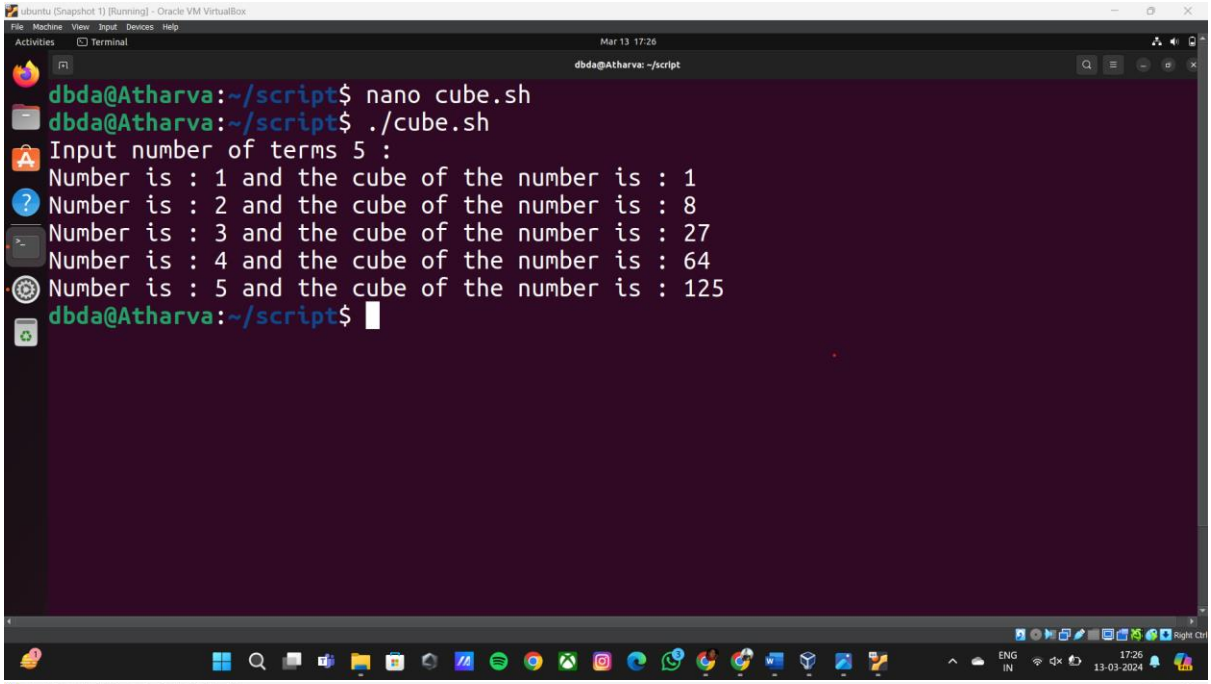

GNU nano 6.2 ntermssumofnaturalnumber.sh
#!/bin/bash
sum=0
echo "The First 7 natural number is :"
for((i=1;i<=7;i++))
do
echo -n "$i "
sum=$((sum+i))
done
echo " "
echo "The sum of natural number upto 7 term : $sum"

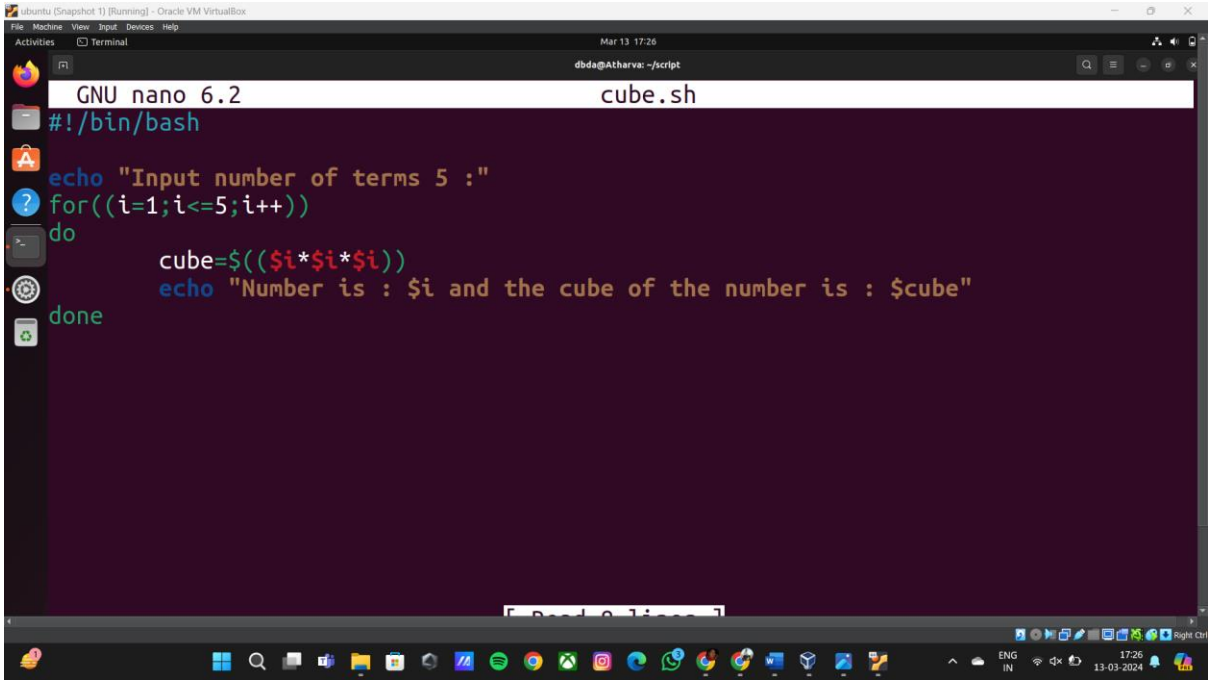
QUES 11:-


dbda@Atharva:~/script$ ./sumaverage.sh
Input the 10 number :
Number 1 :1
Number 2 :2
Number 3 :3
Number 4 :4
Number 5 :5
Number 6 :6
Number 7 :7
Number 8 :8
Number 9 :9
Number 10 :10
Excepted output :
The sum of 10 number is :55
The average is :5.500000
dbda@Atharva:~/script$

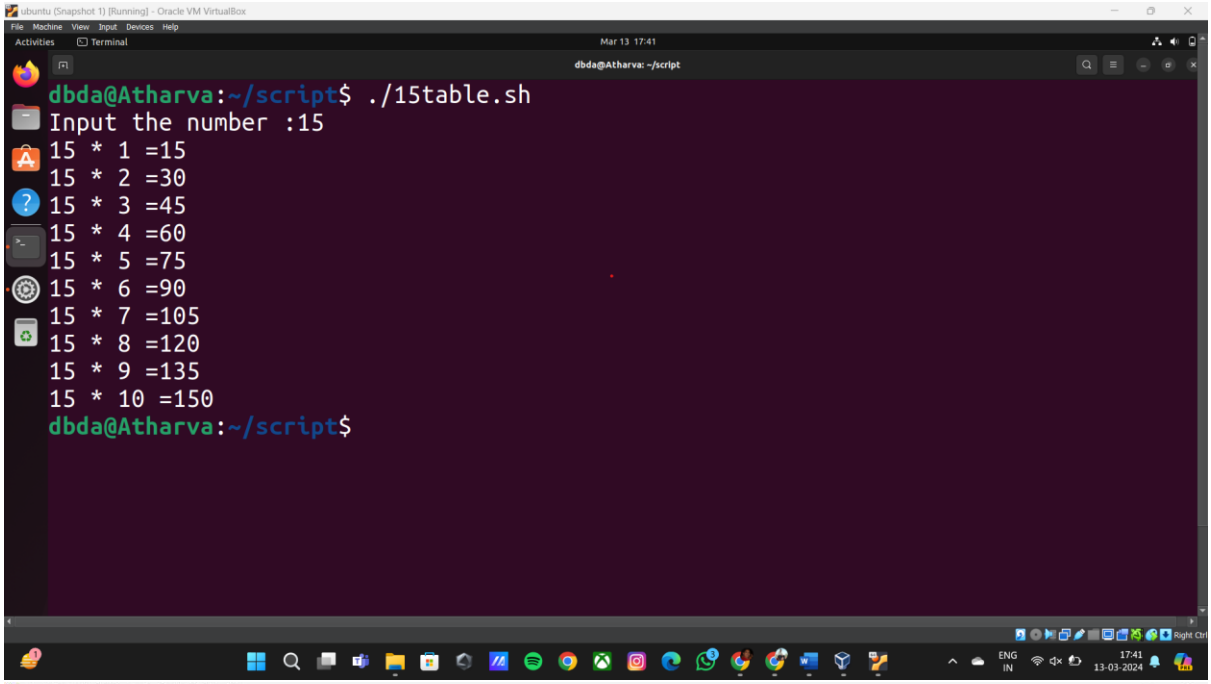

GNU nano 6.2 sumaverage.sh
#!/bin/bash
sum=0
echo "Input the 10 number :"
for((i=1;i<=10;i++))
do
echo "Number $i :$i"
sum=$((sum+i))
done
echo "Excepted output :"
echo "The sum of 10 number is :$sum"
avg=` echo " scale=6; $sum / 10 " | bc `
echo "The average is :$avg"

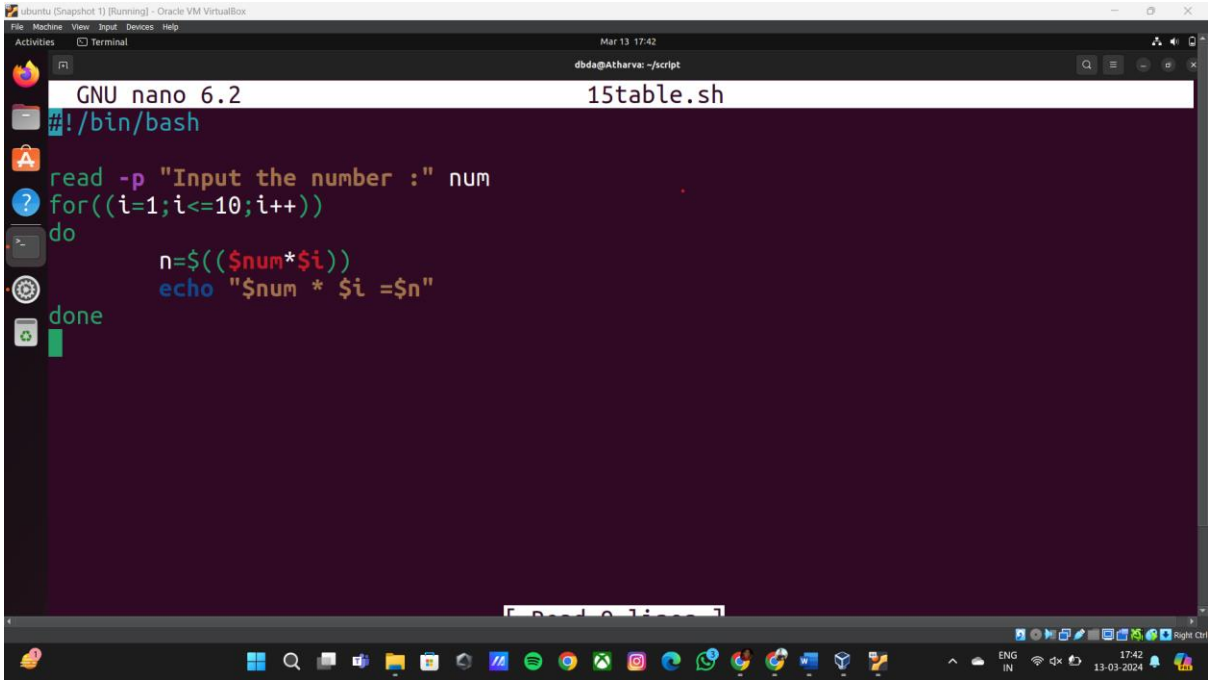
QUES 12:-


dbda@Atharva:~/script$ nano cube.sh
dbda@Atharva:~/script$ ./cube.sh
Input number of terms 5 :
Number is : 1 and the cube of the number is : 1
Number is : 2 and the cube of the number is : 8
Number is : 3 and the cube of the number is : 27
Number is : 4 and the cube of the number is : 64
Number is : 5 and the cube of the number is : 125
dbda@Atharva:~/script$

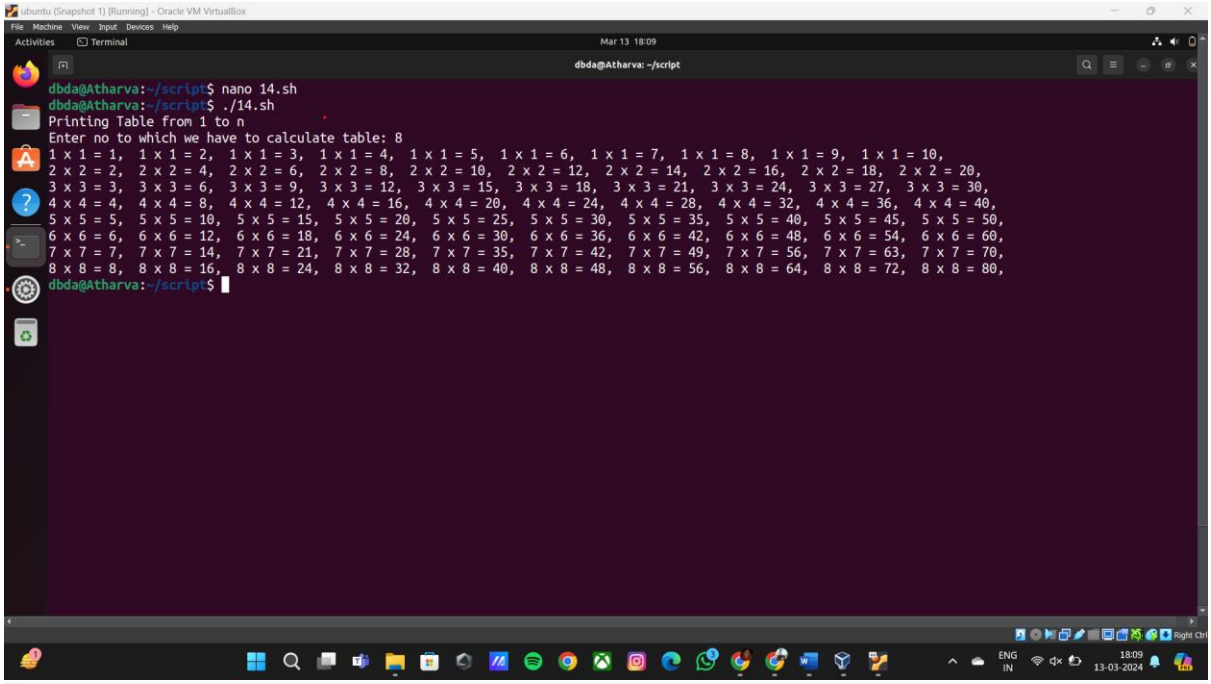

GNU nano 6.2 cube.sh
#!/bin/bash
echo "Input number of terms 5 :"
for((i=1;i<=5;i++))
do
cube=$(($i*$i*$i))
echo "Number is : $i and the cube of the number is : $cube"
done

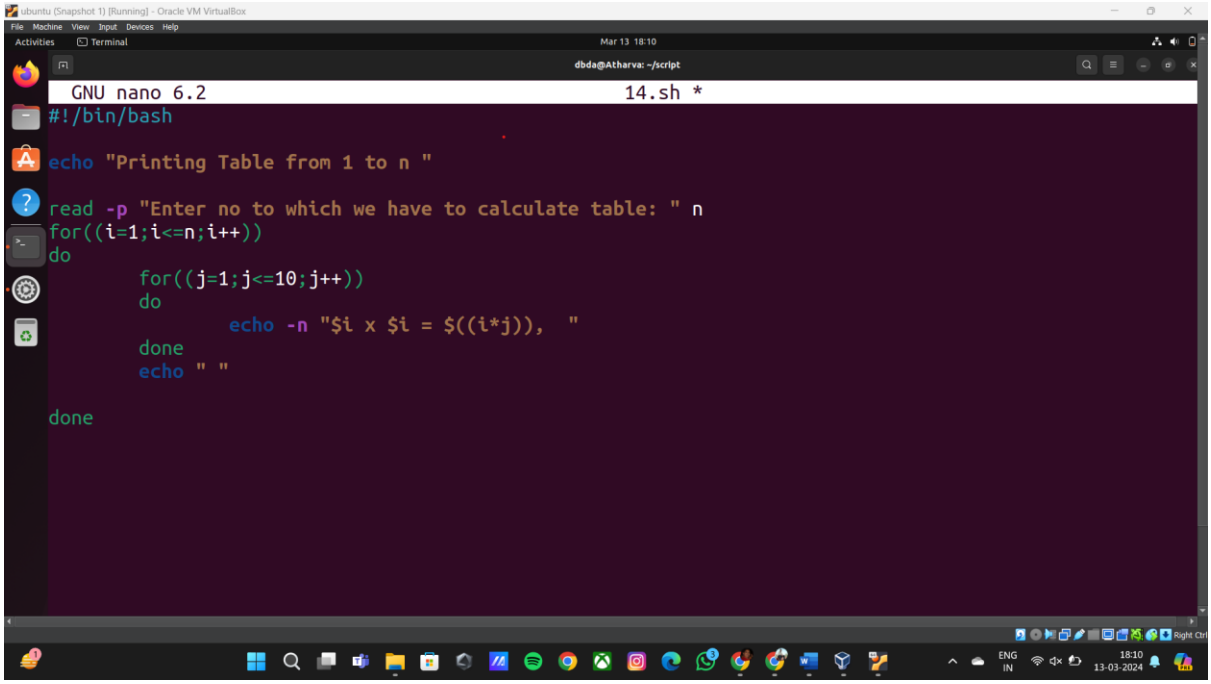
QUES 13:-


dbda@Atharva:~/script$ ./15table.sh
Input the number :15
15 * 1 =15
15 * 2 =30
15 * 3 =45
15 * 4 =60
15 * 5 =75
15 * 6 =90
15 * 7 =105
15 * 8 =120
15 * 9 =135
15 * 10 =150
dbda@Atharva:~/script$

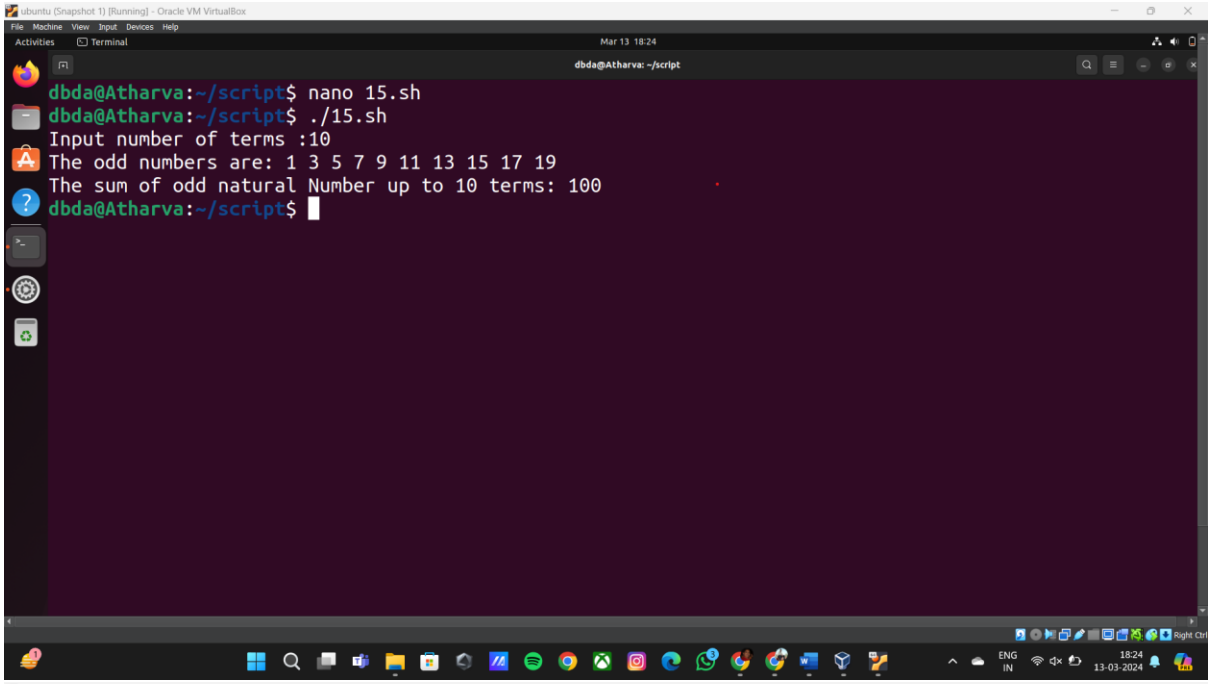

GNU nano 6.2 15table.sh
#!/bin/bash
read -p "Input the number :" num
for((i=1;i<=10;i++))
do
n=$(($num*$i))
echo "$num * $i =$n"
done

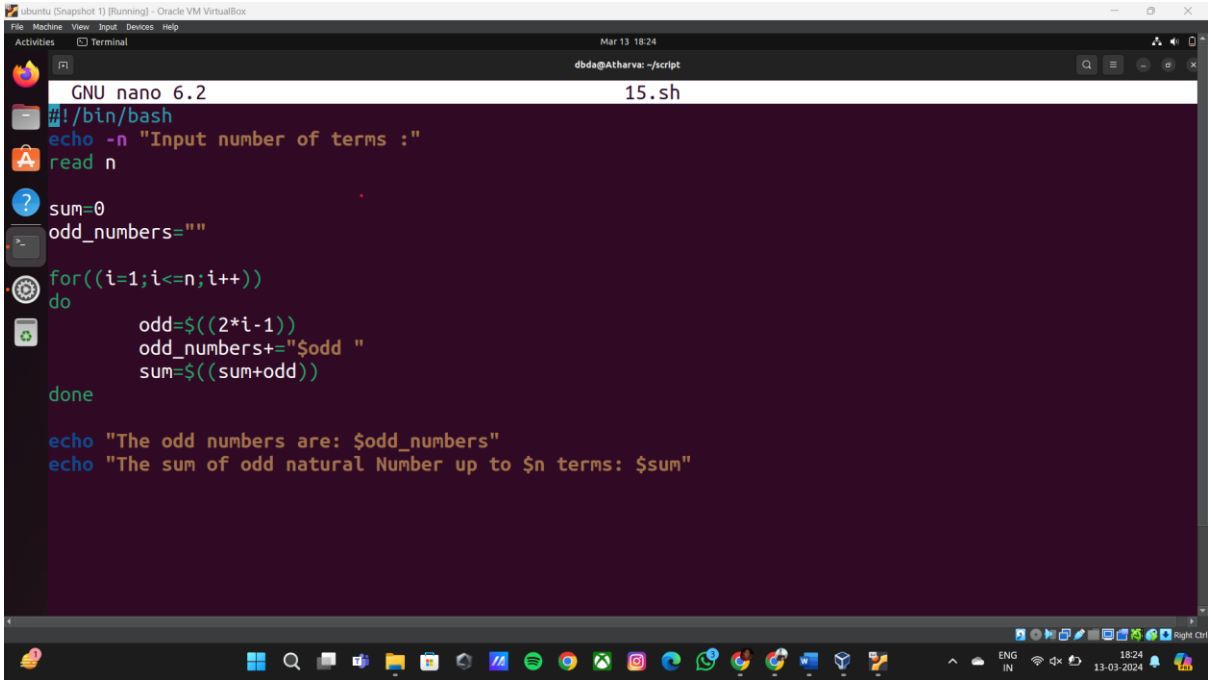
QUES 14:-


ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 13 18:09
dbda@Atharva: ~/script
dbda@Atharva:~/script$ nano 14.sh
dbda@Atharva:~/script$ ./14.sh
Printing Table from 1 to n
Enter no to which we have to calculate table: 8
1 x 1 = 1, 1 x 1 = 2, 1 x 1 = 3, 1 x 1 = 4, 1 x 1 = 5, 1 x 1 = 6, 1 x 1 = 7, 1 x 1 = 8, 1 x 1 = 9, 1 x 1 = 10,
2 x 2 = 2, 2 x 2 = 4, 2 x 2 = 6, 2 x 2 = 8, 2 x 2 = 10, 2 x 2 = 12, 2 x 2 = 14, 2 x 2 = 16, 2 x 2 = 18, 2 x 2 = 20,
3 x 3 = 3, 3 x 3 = 6, 3 x 3 = 9, 3 x 3 = 12, 3 x 3 = 15, 3 x 3 = 18, 3 x 3 = 21, 3 x 3 = 24, 3 x 3 = 27, 3 x 3 = 30,
4 x 4 = 4, 4 x 4 = 8, 4 x 4 = 12, 4 x 4 = 16, 4 x 4 = 20, 4 x 4 = 24, 4 x 4 = 28, 4 x 4 = 32, 4 x 4 = 36, 4 x 4 = 40,
5 x 5 = 5, 5 x 5 = 10, 5 x 5 = 15, 5 x 5 = 20, 5 x 5 = 25, 5 x 5 = 30, 5 x 5 = 35, 5 x 5 = 40, 5 x 5 = 45, 5 x 5 = 50,
6 x 6 = 6, 6 x 6 = 12, 6 x 6 = 18, 6 x 6 = 24, 6 x 6 = 30, 6 x 6 = 36, 6 x 6 = 42, 6 x 6 = 48, 6 x 6 = 54, 6 x 6 = 60,
7 x 7 = 7, 7 x 7 = 14, 7 x 7 = 21, 7 x 7 = 28, 7 x 7 = 35, 7 x 7 = 42, 7 x 7 = 49, 7 x 7 = 56, 7 x 7 = 63, 7 x 7 = 70,
8 x 8 = 8, 8 x 8 = 16, 8 x 8 = 24, 8 x 8 = 32, 8 x 8 = 40, 8 x 8 = 48, 8 x 8 = 56, 8 x 8 = 64, 8 x 8 = 72, 8 x 8 = 80,
dbda@Atharva:~/script$
ENG IN 18:09 13-03-2024


ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 13 18:10
dbda@Atharva: ~/script
GNU nano 6.2 14.sh *
#!/bin/bash
echo "Printing Table from 1 to n "
read -p "Enter no to which we have to calculate table: " n
for((i=1;i<=n;i++))
do
for((j=1;j<=10;j++))
do
echo -n "$i x $i = $((i*j)), "
done
echo " "
done
ENG IN 18:10 13-03-2024

QUES 15:-


ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 13 18:24
dbda@Atharva: ~/script
dbda@Atharva:~/script$ nano 15.sh
dbda@Atharva:~/script$ ./15.sh
Input number of terms :10
The odd numbers are: 1 3 5 7 9 11 13 15 17 19
The sum of odd natural Number up to 10 terms: 100
dbda@Atharva:~/script$


ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 13 18:24
dbda@Atharva: ~/script
GNU nano 6.2 15.sh
#!/bin/bash
echo -n "Input number of terms :"
read n
sum=0
odd_numbers=""
for((i=1;i<=n;i++))
do
odd=$((2*i-1))
odd_numbers+="$odd "
sum=$((sum+odd))
done
echo "The odd numbers are: $odd_numbers"
echo "The sum of odd natural Number up to $n terms: $sum"