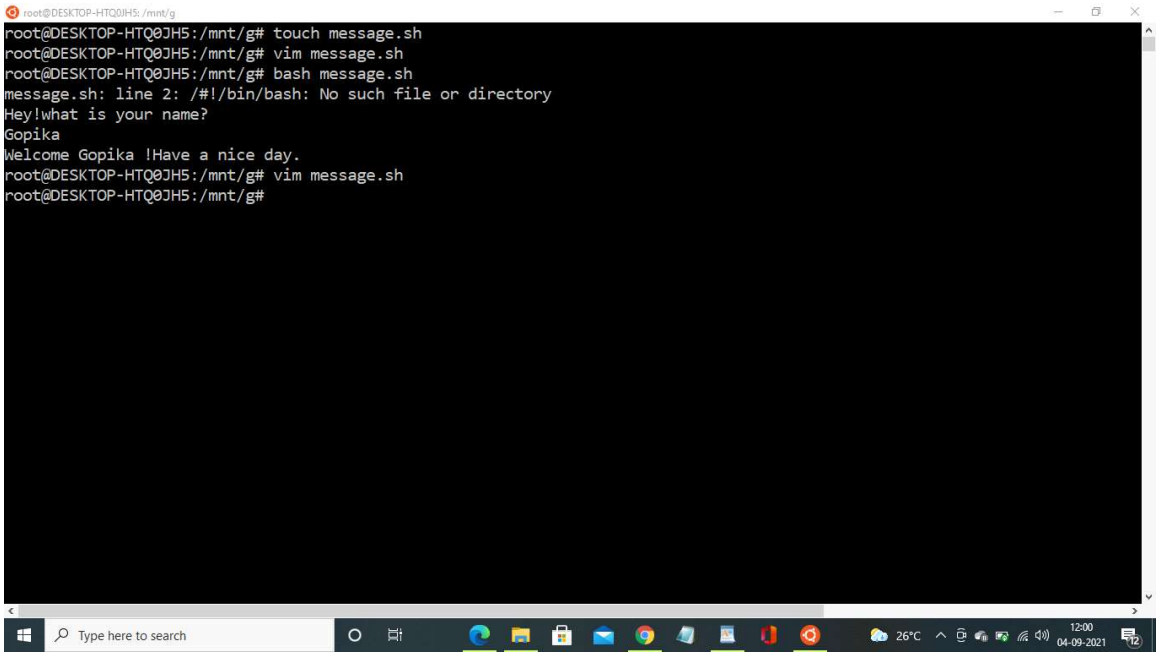
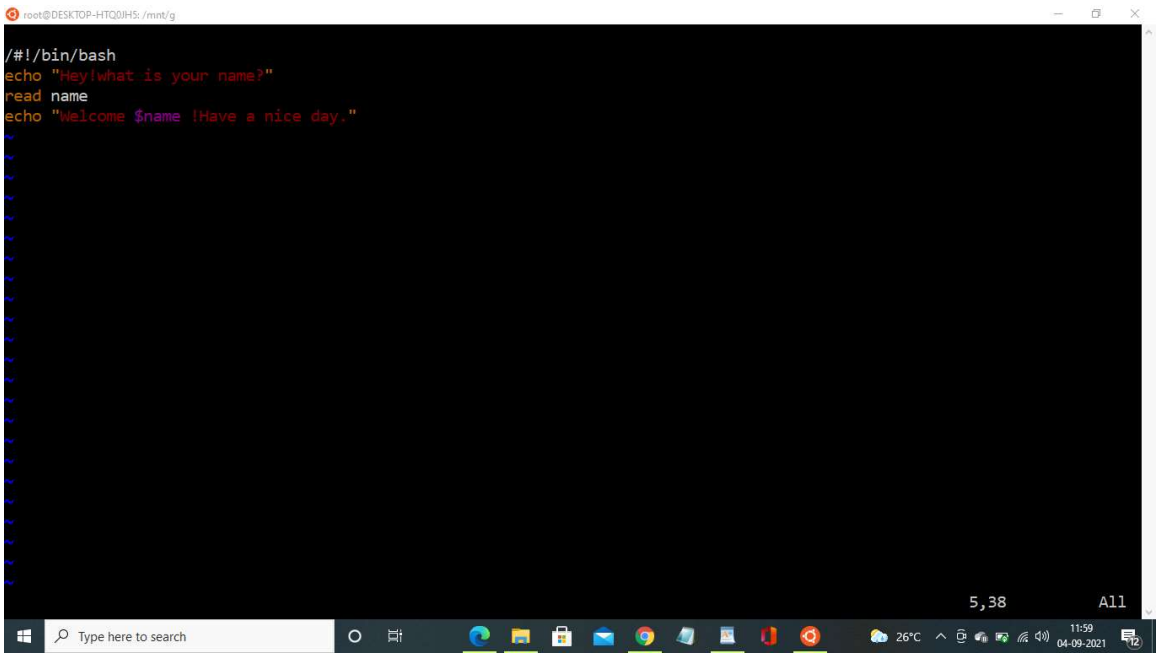
EXPERIMENT NO:

AIM: SHELL SCRIPTING PROGRAMS

?1.Write a shell script program to display a given message.

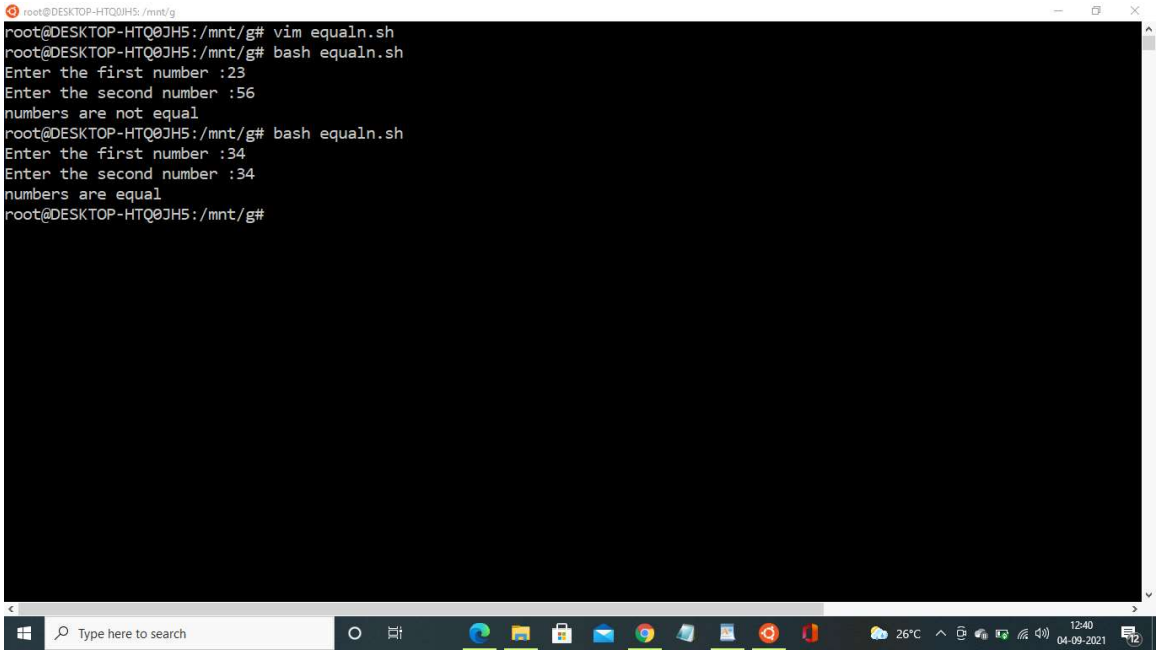
SOURCE CODE &OUTPUT:

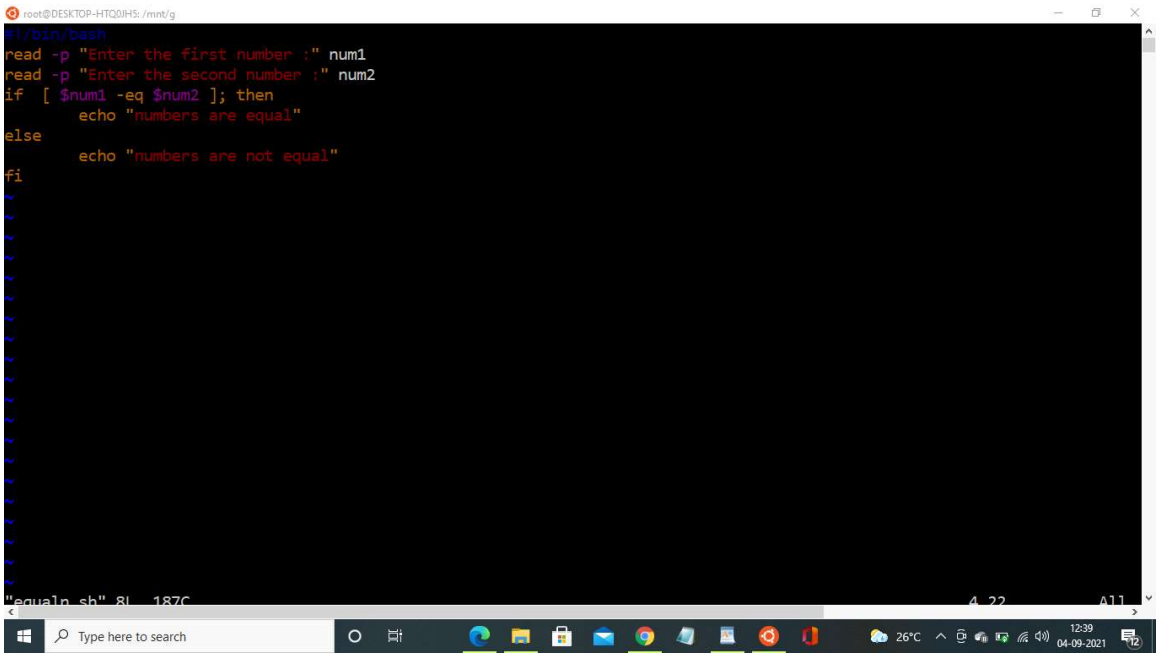




?2.Write a shell script to print whether two numbers are equal or not.

SOURCE CODE &OUTPUT:

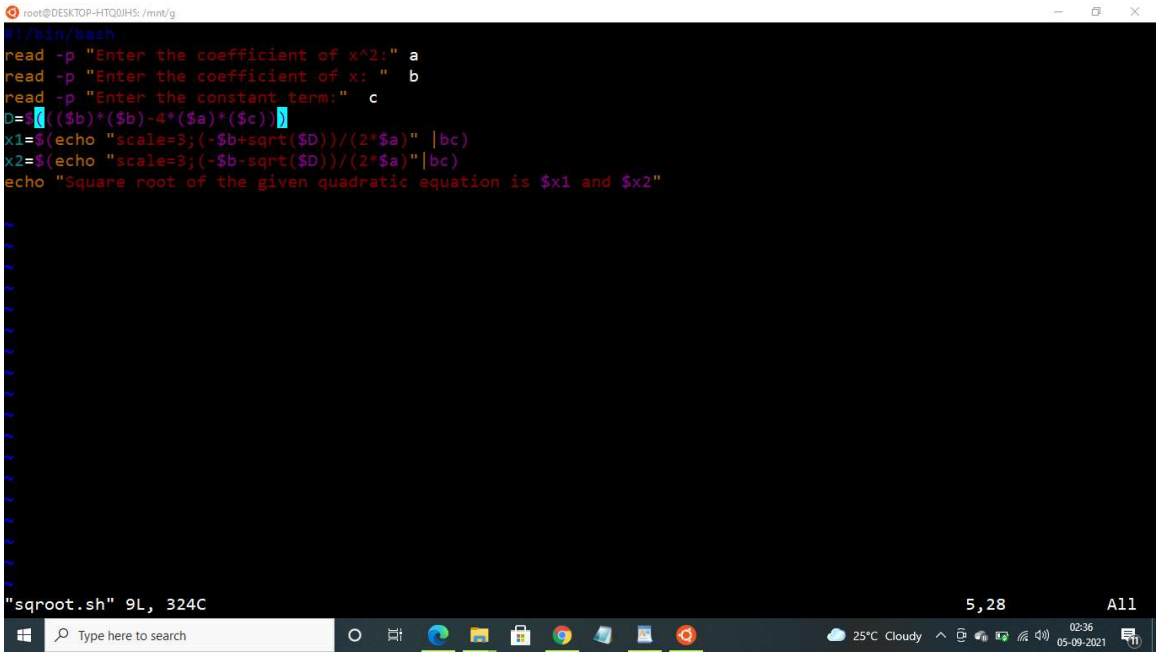


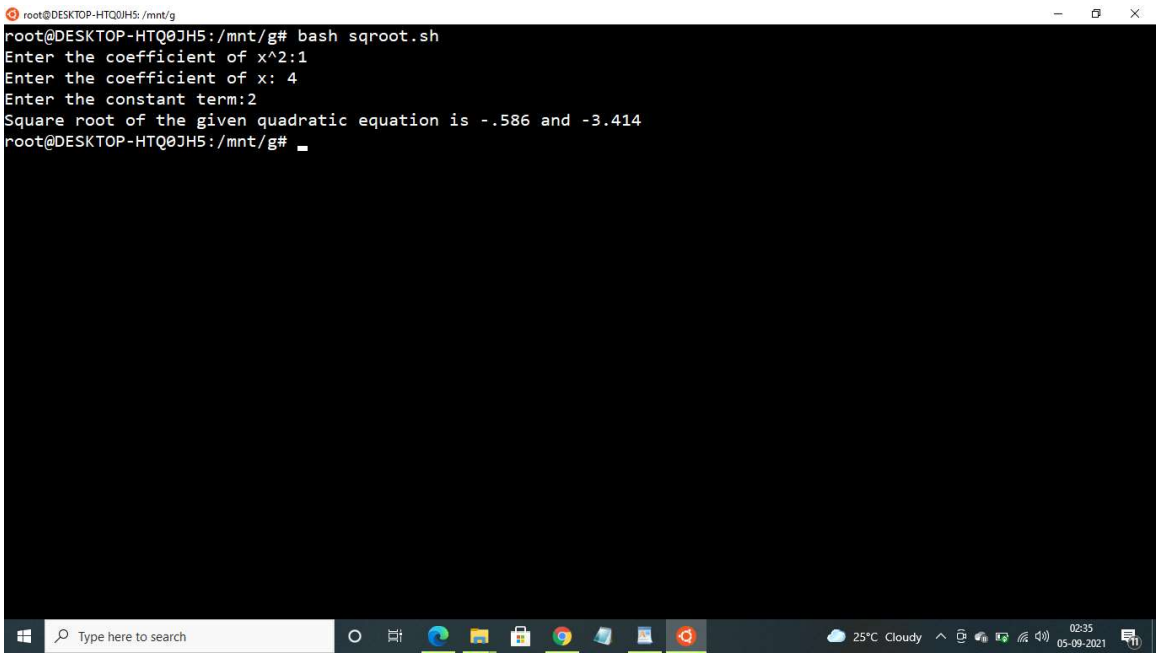


?3.Write a Shell Program to find the roots of the quadratic

equation

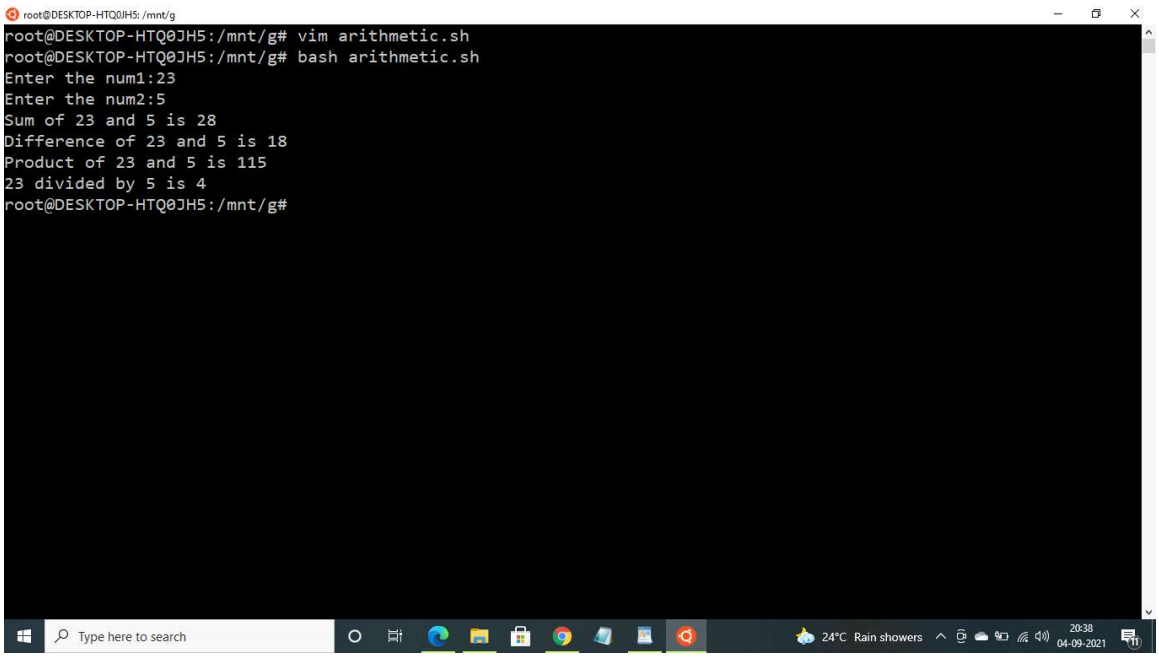
SOURCE CODE &OUTPUT:

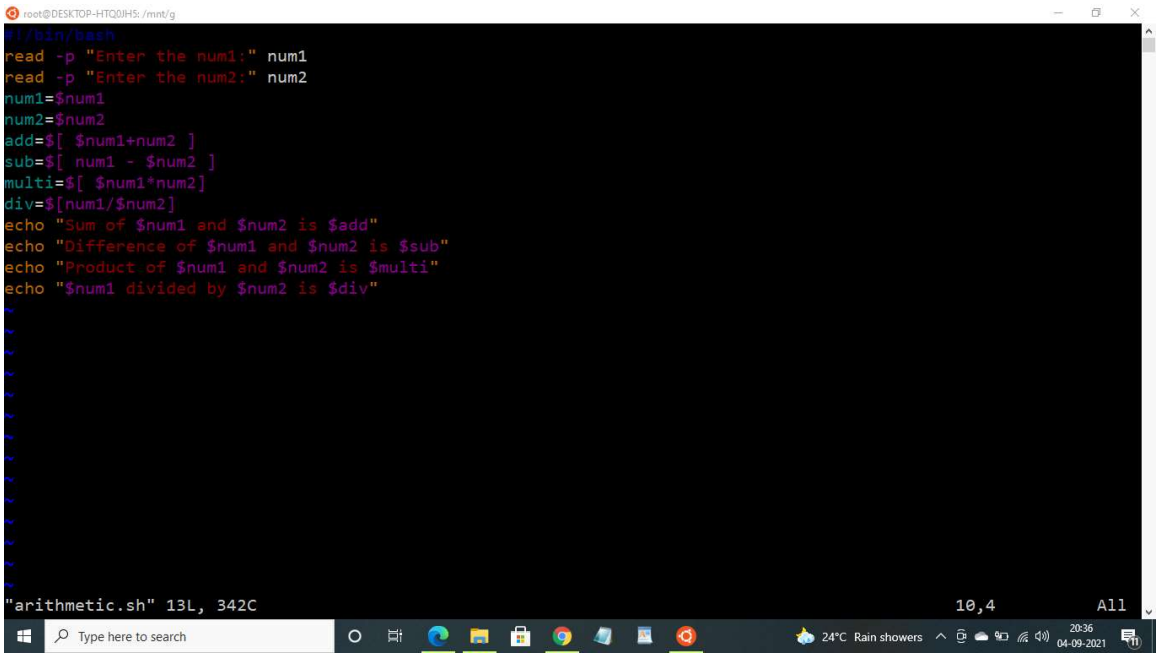




?4.Write a shell script to perform integer arithmetic operations.

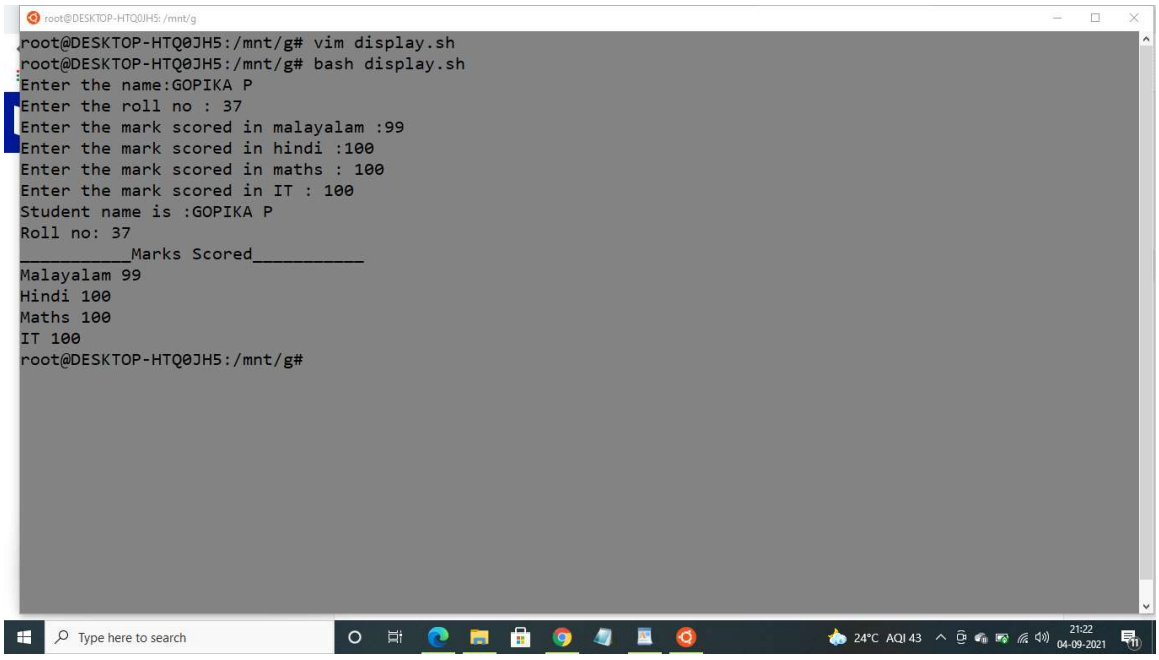
SOURCE CODE & OUTPUT:

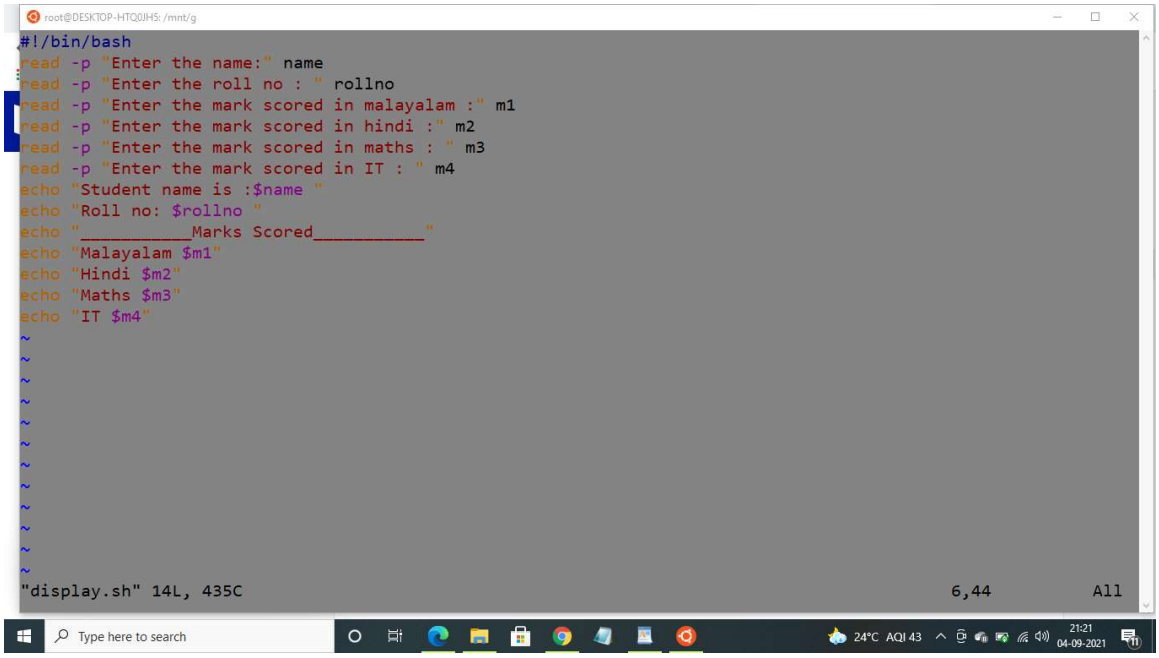

root@DESKTOP-HTQ0JH5: /mnt/g
root@DESKTOP-HTQ0JH5:/mnt/g# vim arithmetic.sh
root@DESKTOP-HTQ0JH5:/mnt/g# bash arithmetic.sh
Enter the num1:23
Enter the num2:5
Sum of 23 and 5 is 28
Difference of 23 and 5 is 18
Product of 23 and 5 is 115
23 divided by 5 is 4
root@DESKTOP-HTQ0JH5:/mnt/g#
Type here to search
24°C Rain showers
20:38
04-09-2021


root@DESKTOP-HTQ0JH5: /mnt/g
#!/bin/bash
read -p "Enter the num1:" num1
read -p "Enter the num2:" num2
num1=$num1
num2=$num2
add=$[$num1+num2]
sub=$[num1 - $num2]
multi=$[$num1*num2]
div=$[num1/$num2]
echo "Sum of $num1 and $num2 is $add"
echo "Difference of $num1 and $num2 is $sub"
echo "Product of $num1 and $num2 is $multi"
echo "$num1 divided by $num2 is $div"
"arithmetic.sh" 13L, 342C
10,4
All
Type here to search
24°C Rain showers
20:36
04-09-2021

?5.Write a shell script to getting input details like name, roll number and marks and print them.

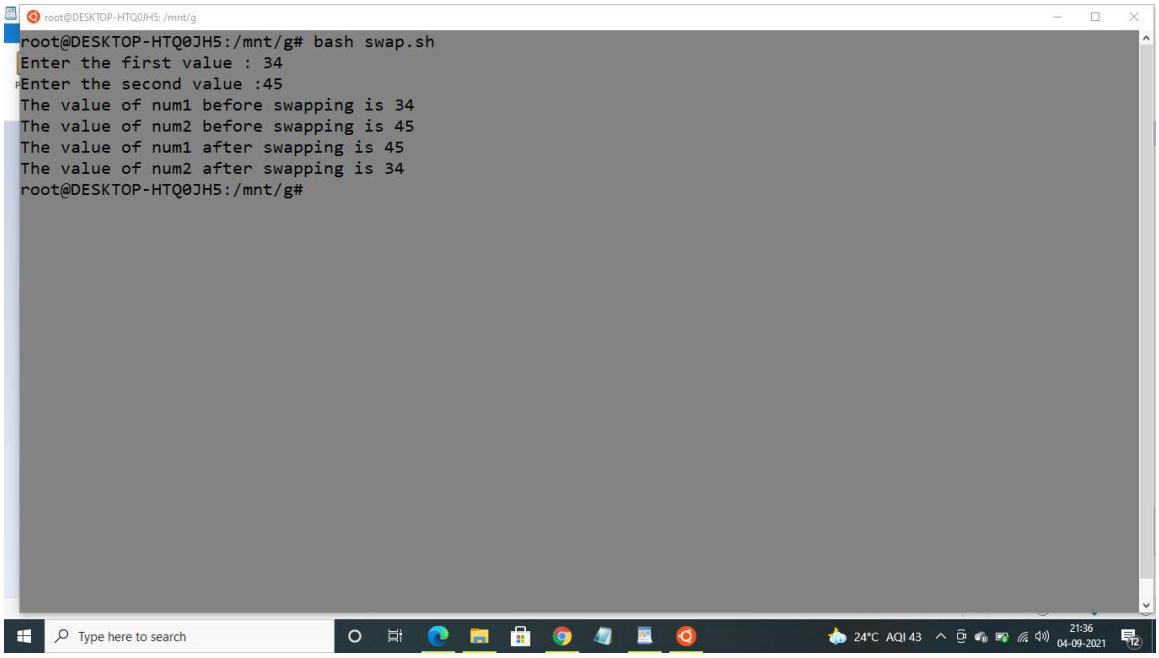
source code &output:

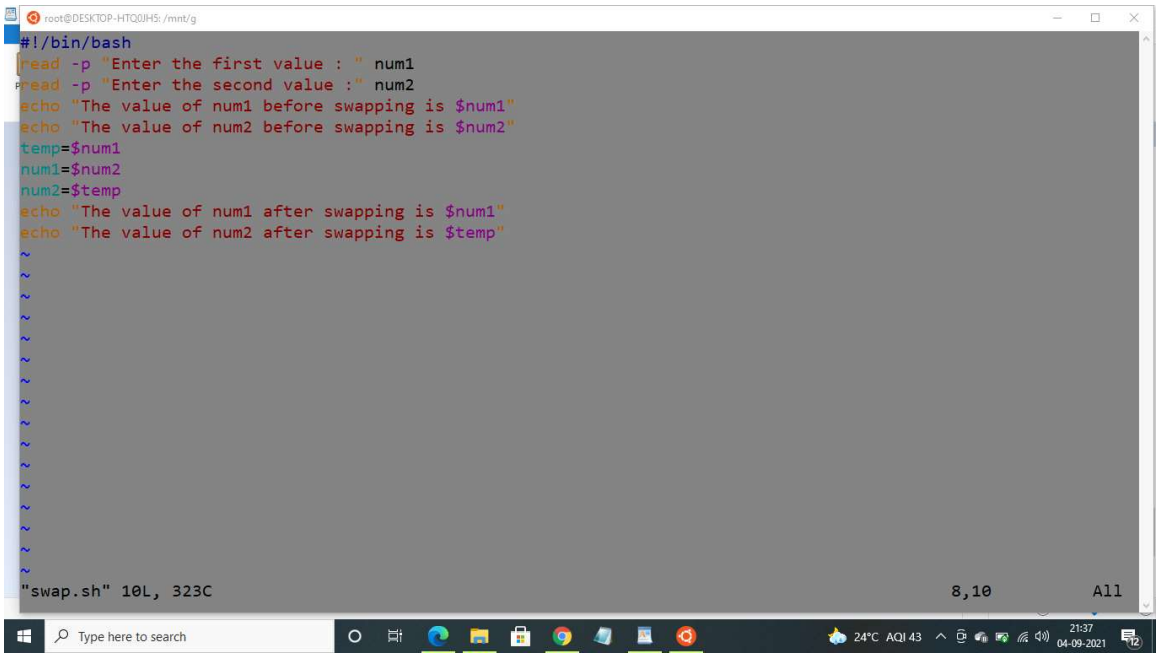




?6.Write a Shell program to swap two values.

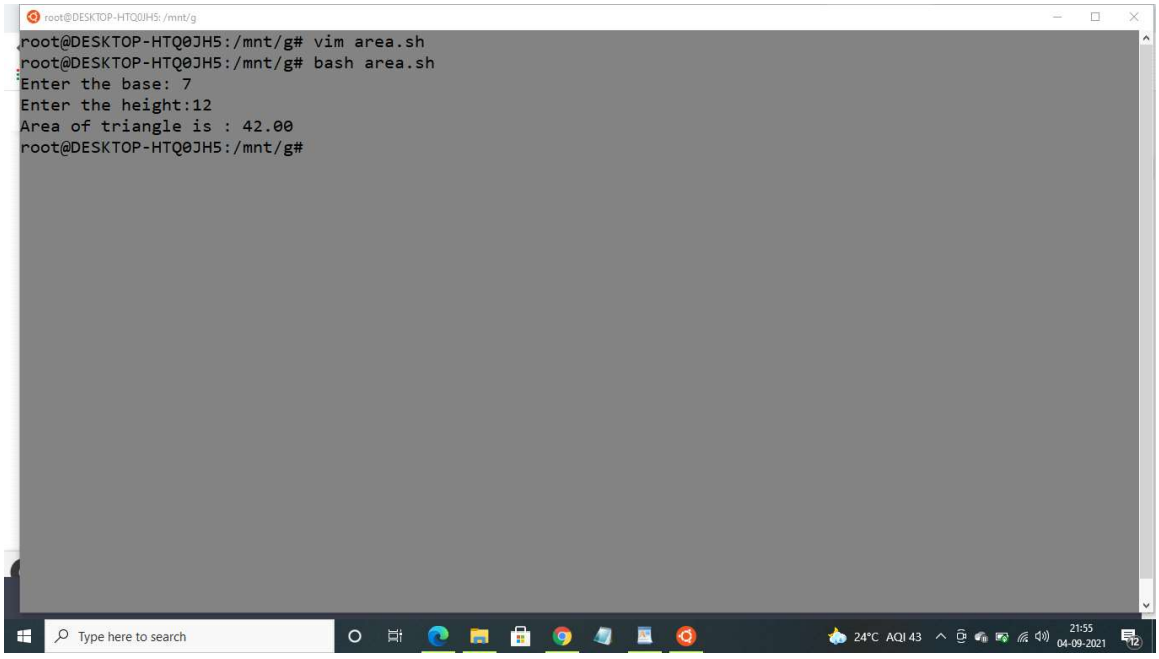
SOURCE CODE &OUTPUT:

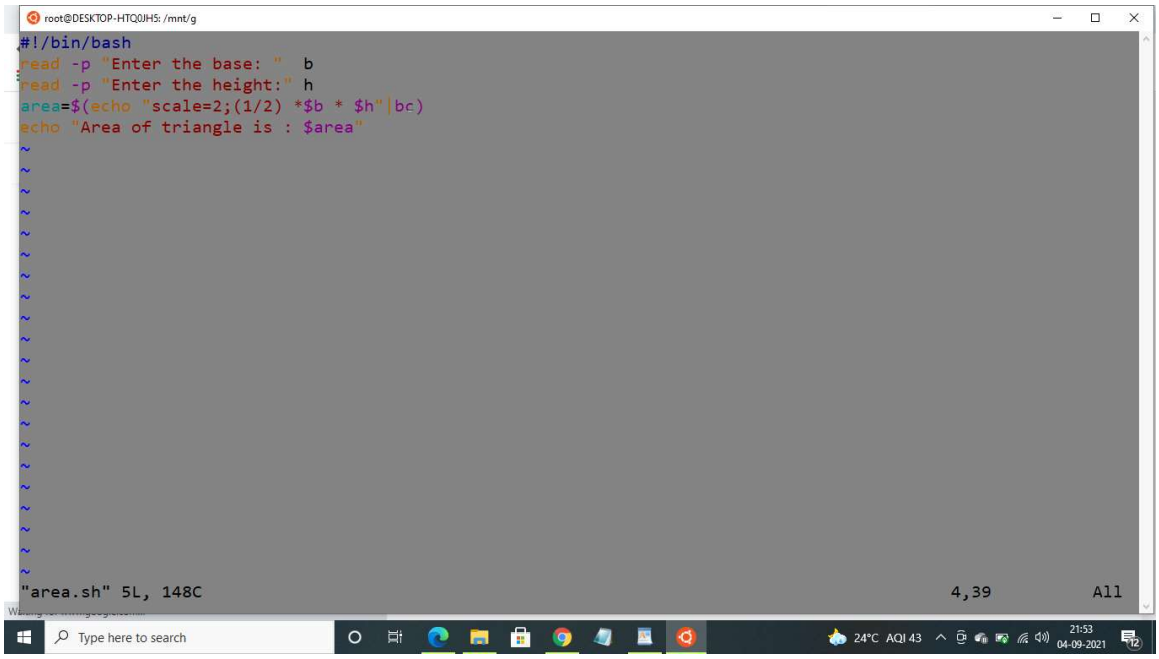




?7.Write a shell program to find the area of a triangle.

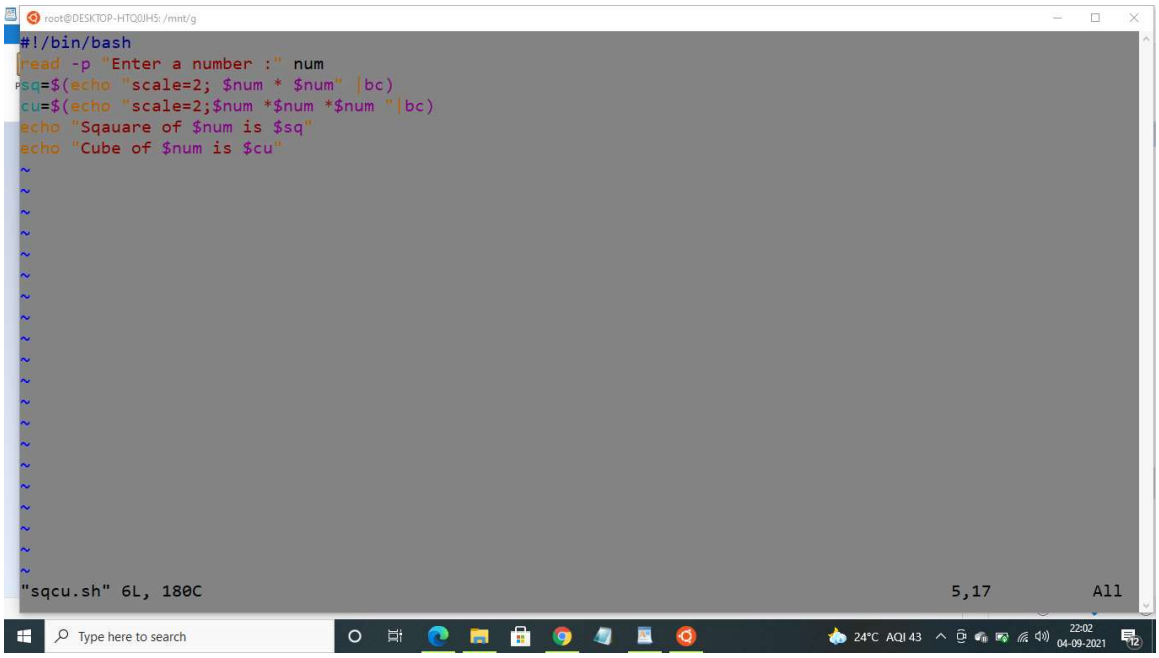
SOURCE CODE &OUTPUT:

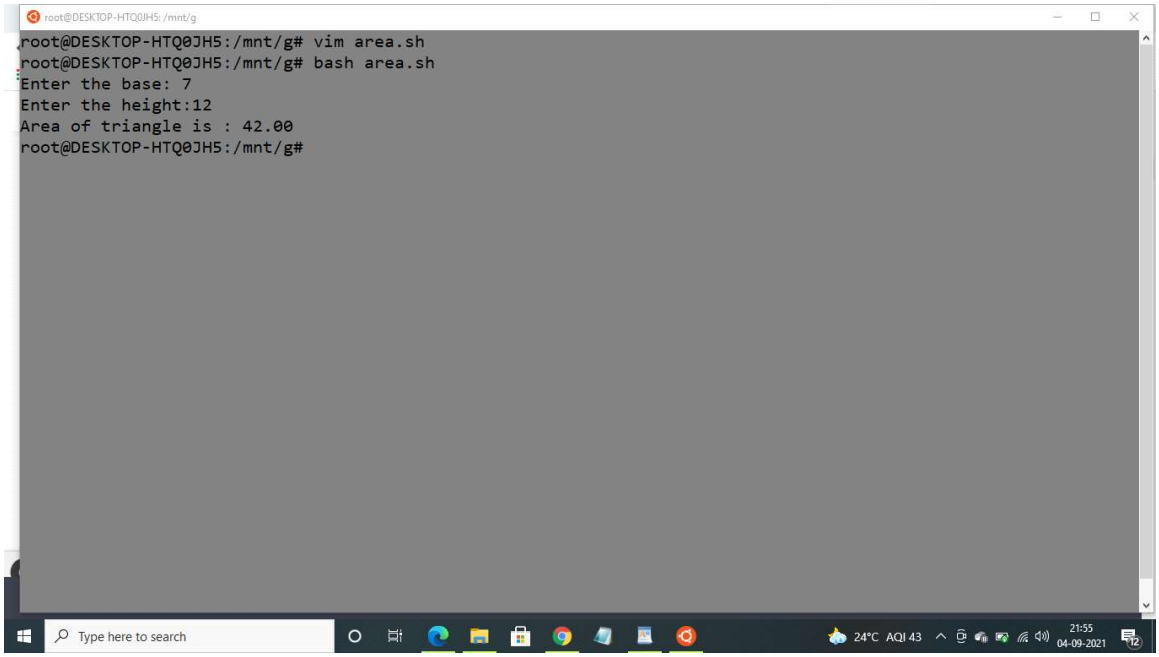




?8.Write a shell program to find the square and cube of a number.

SOURCE CODE &OUTPUT:

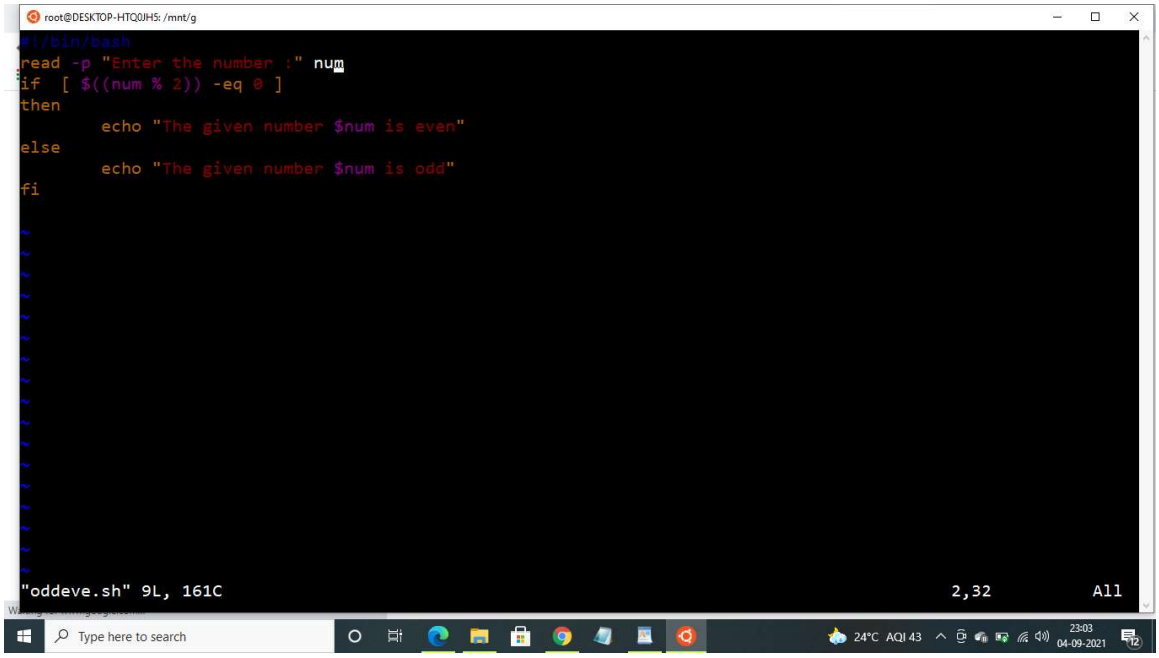


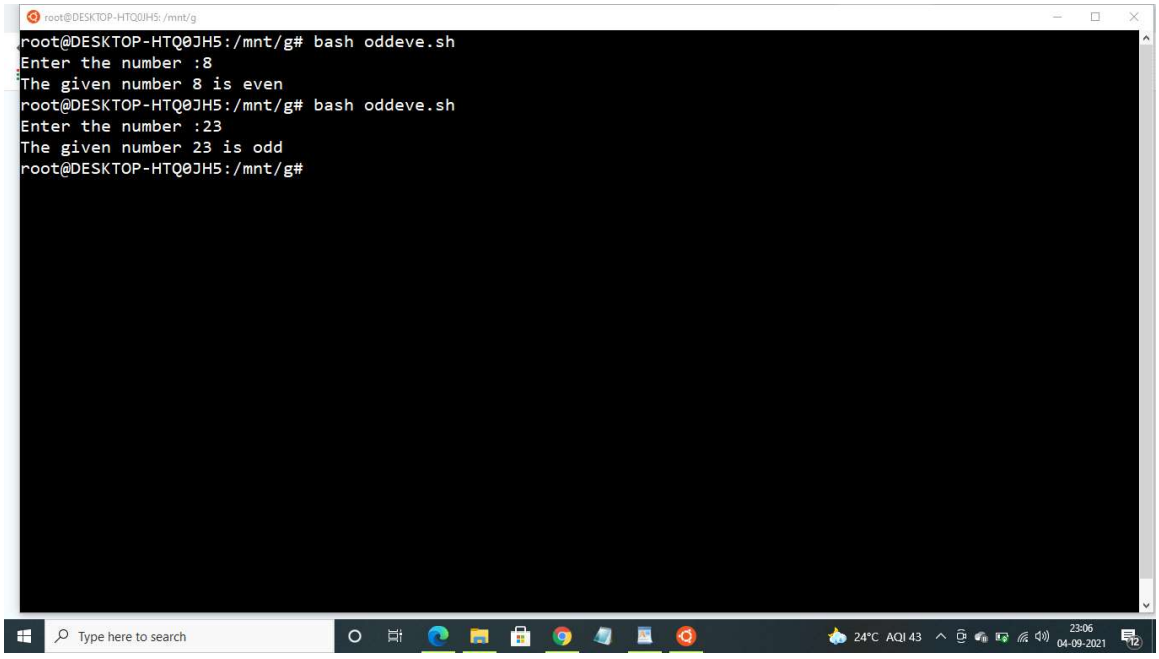


?9.Write a shell program to check whether the given

number is odd or even.

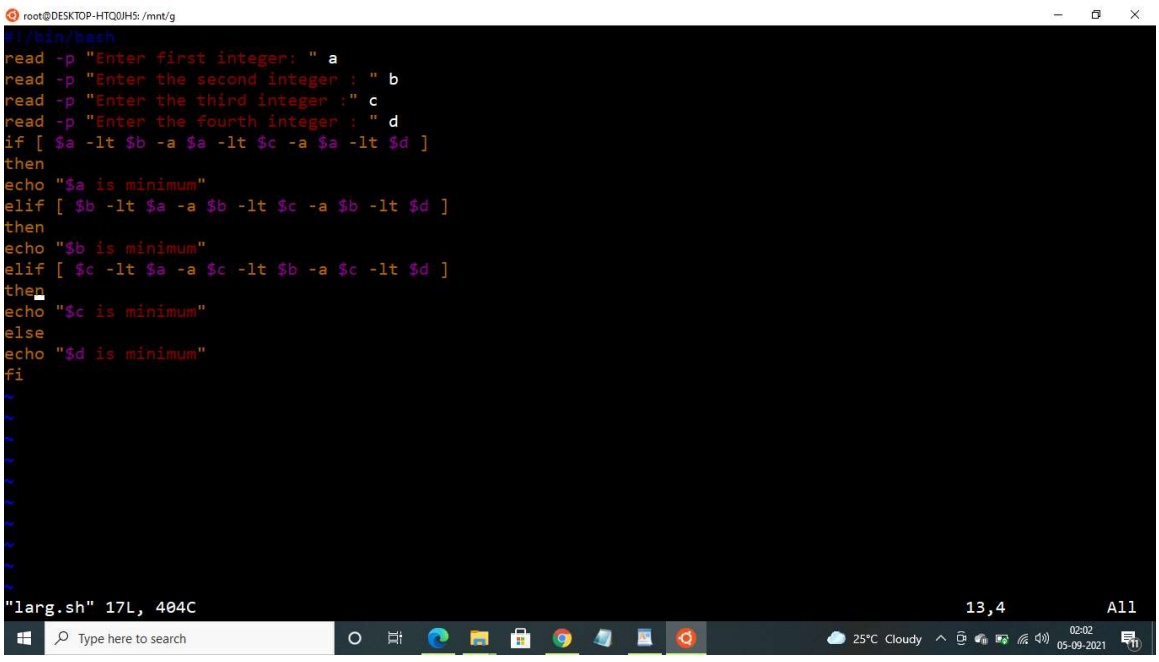
SOURCE CODE &OUTPUT:

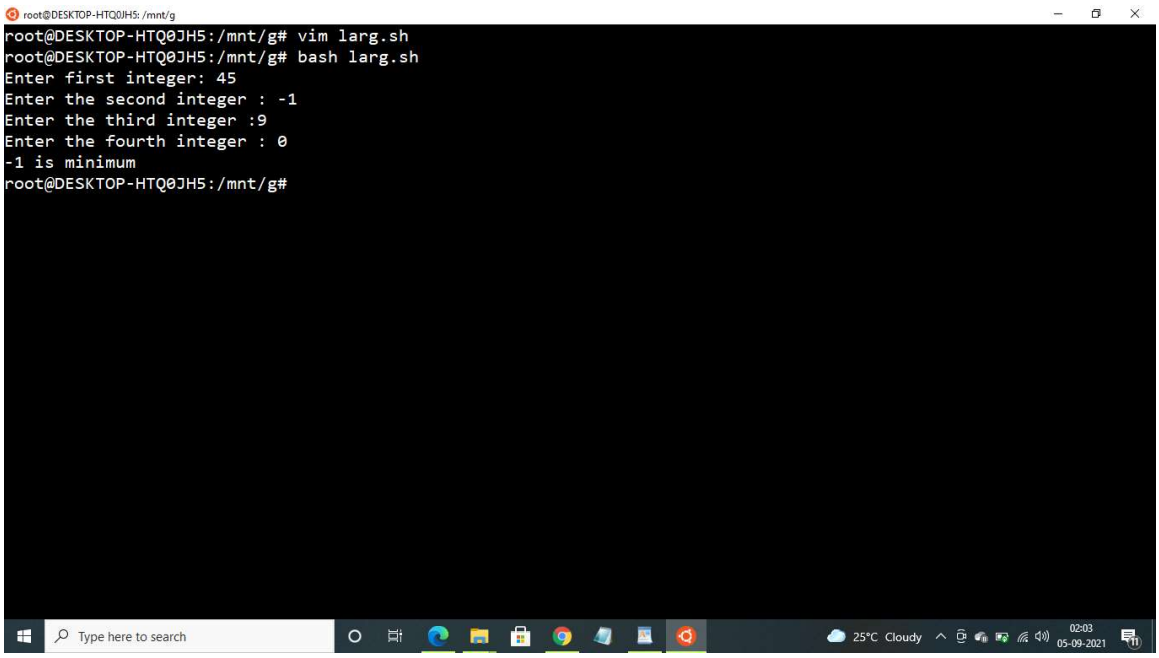




?.10Write a shell program to find the minimum among four values.

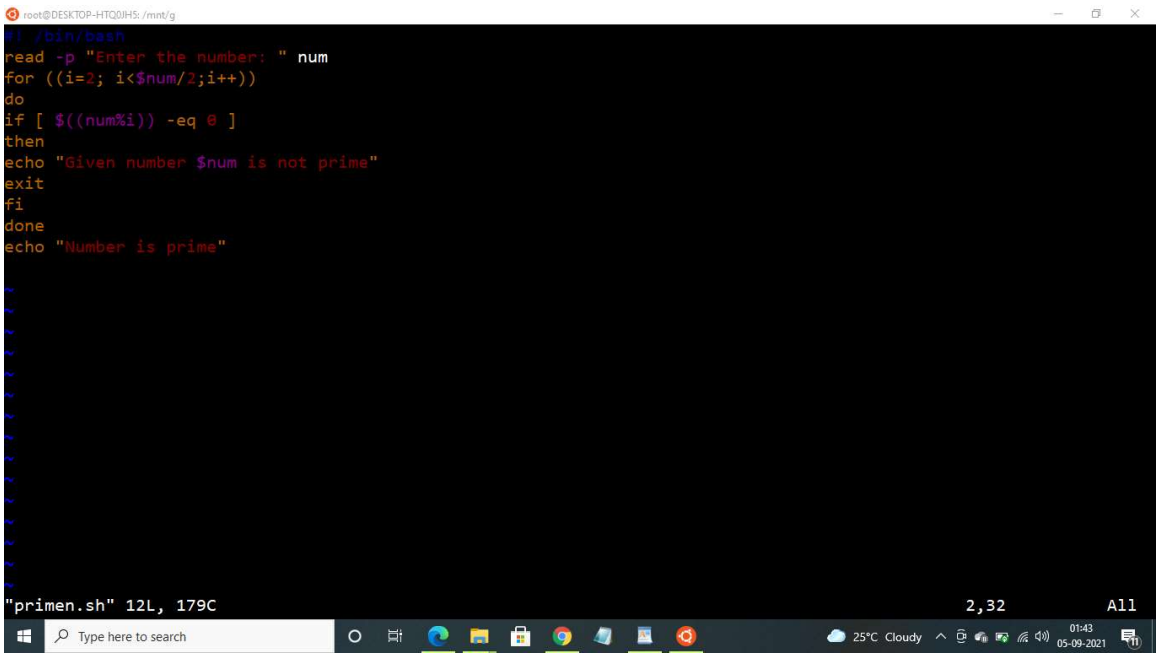
SOURCE CODE &OUTPUT:

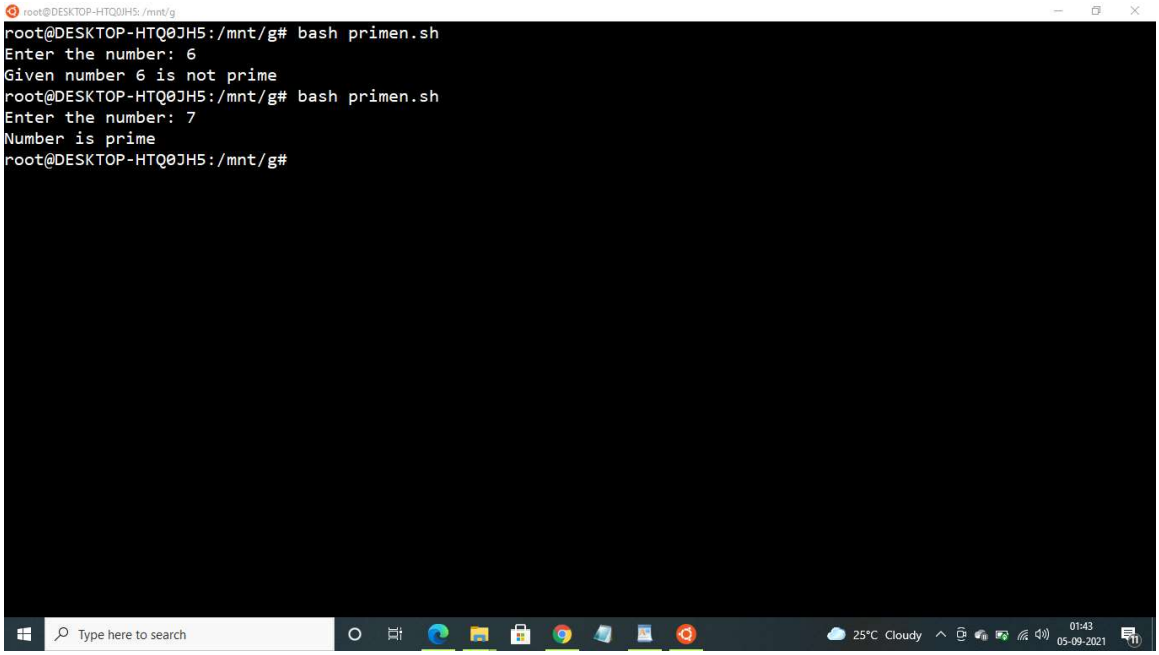




?.11.Write a shell program to check whether the input number is prime or not.

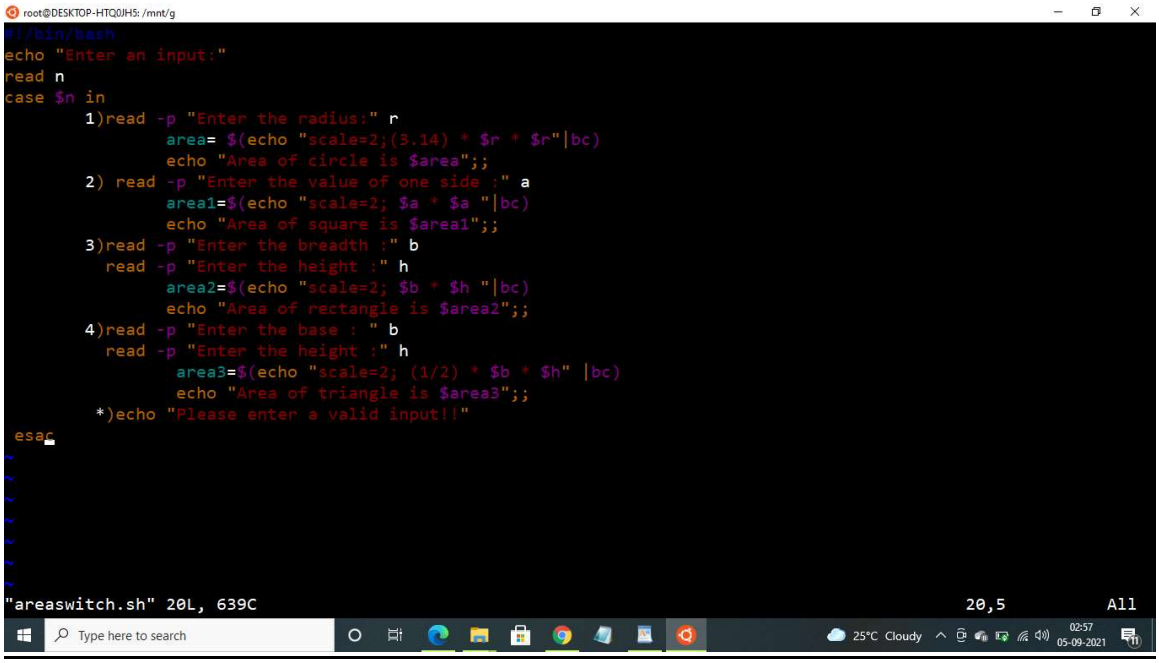
SOURCE CODE &OUTPUT:

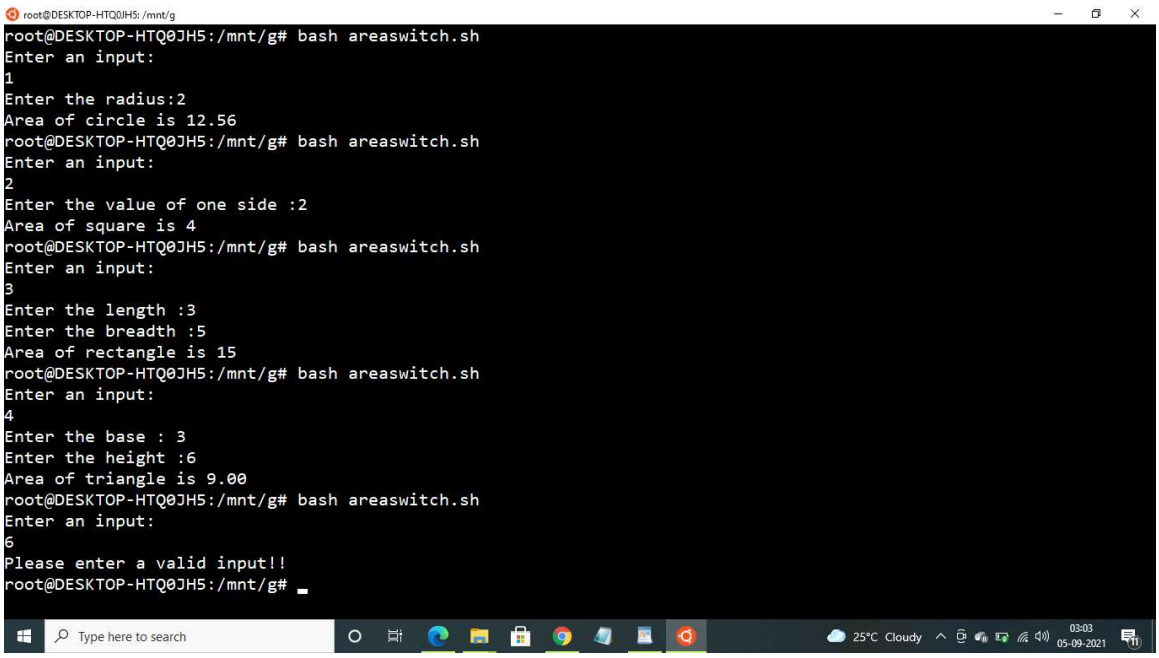

root@DESKTOP-HTQ0JH5: /mnt/g
#! /bin/bash
read -p "Enter the number: " num
for ((i=2; i<$num/2;i++))
do
if [$((num%i)) -eq 0]
then
echo "Given number $num is not prime"
exit
fi
done
echo "Number is prime"
"primen.sh" 12L, 179C
2,32
All
Type here to search
25°C Cloudy
01:43
05-09-2021


root@DESKTOP-HTQ0JH5: /mnt/g
root@DESKTOP-HTQ0JH5:/mnt/g# bash primen.sh
Enter the number: 6
Given number 6 is not prime
root@DESKTOP-HTQ0JH5:/mnt/g# bash primen.sh
Enter the number: 7
Number is prime
root@DESKTOP-HTQ0JH5:/mnt/g#
Type here to search
25°C Cloudy
01:43
05-09-2021

?.12.Write a shell program to find the area of circle, square, rectangle and triangle using case statements.

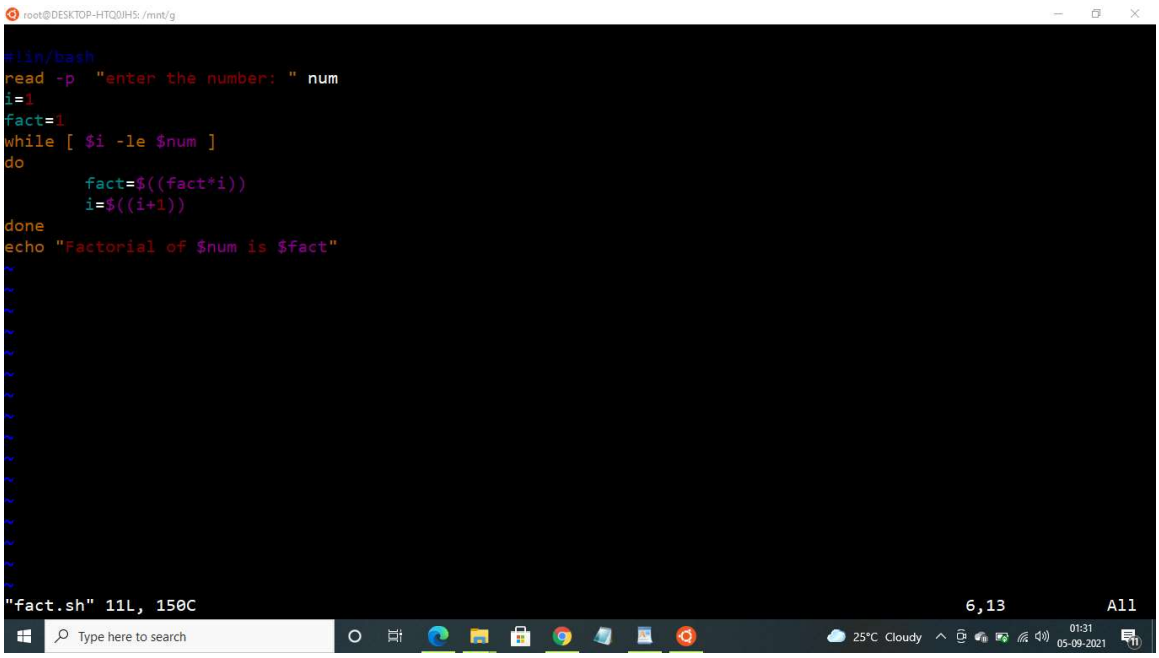
SOURCE CODE &OUTPUT:

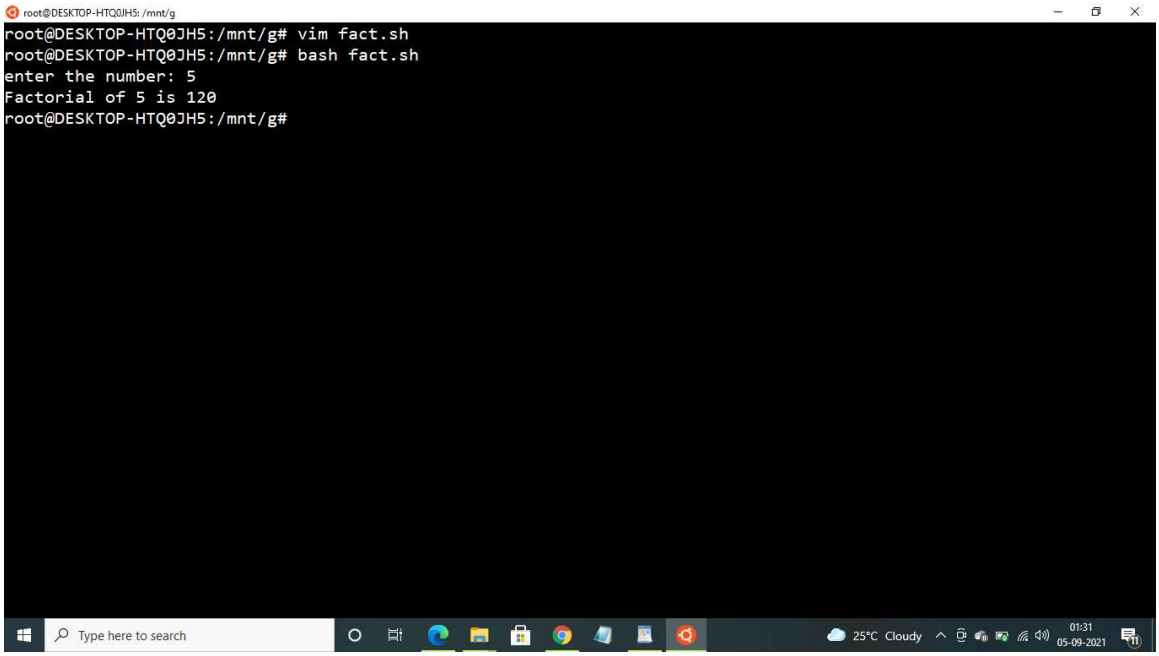




?.13.Write a shell program to find the factorial of a given number.

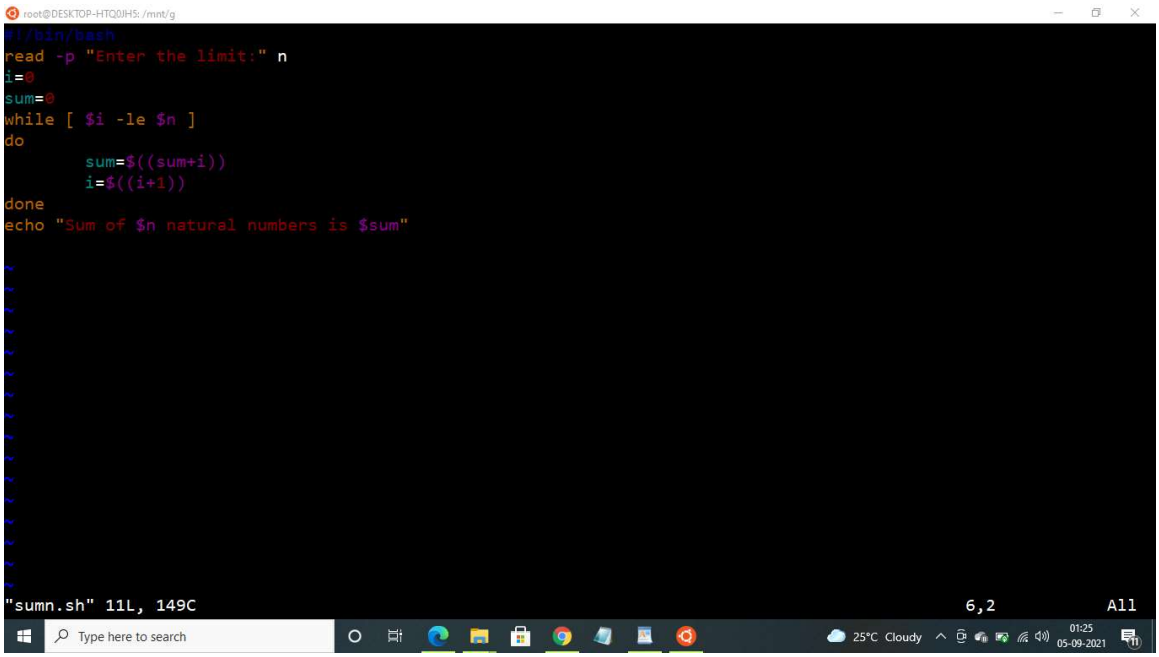
SOURCE CODE &OUTPUT:

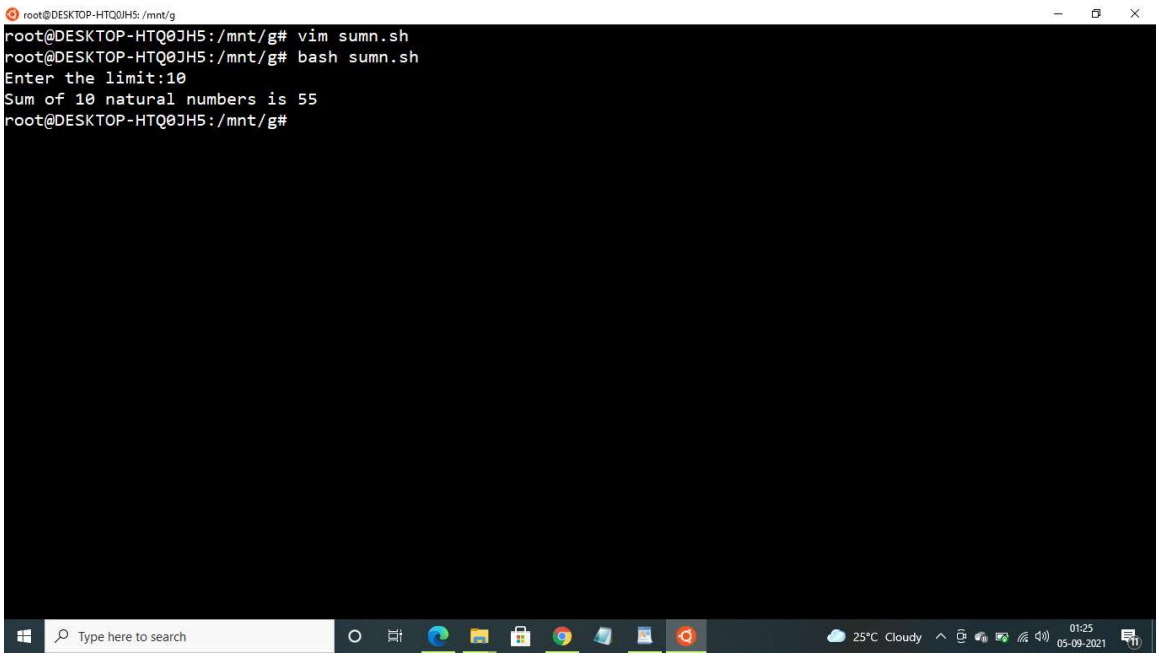

root@DESKTOP-HTQ0JH5: /mnt/g
#!/bin/bash
read -p "enter the number: " num
i=1
fact=1
while [$i -le $num]
do
fact=$((fact*i))
i=$((i+1))
done
echo "Factorial of $num is $fact"
"fact.sh" 11L, 150C
6,13
All
Type here to search
25°C Cloudy
01:31
05-09-2021


root@DESKTOP-HTQ0JH5: /mnt/g
root@DESKTOP-HTQ0JH5:/mnt/g# vim fact.sh
root@DESKTOP-HTQ0JH5:/mnt/g# bash fact.sh
enter the number: 5
Factorial of 5 is 120
root@DESKTOP-HTQ0JH5:/mnt/g#
Type here to search
25°C Cloudy
01:31
05-09-2021

?.14.Write a Simple Shell script to print the sum of n natural numbers.

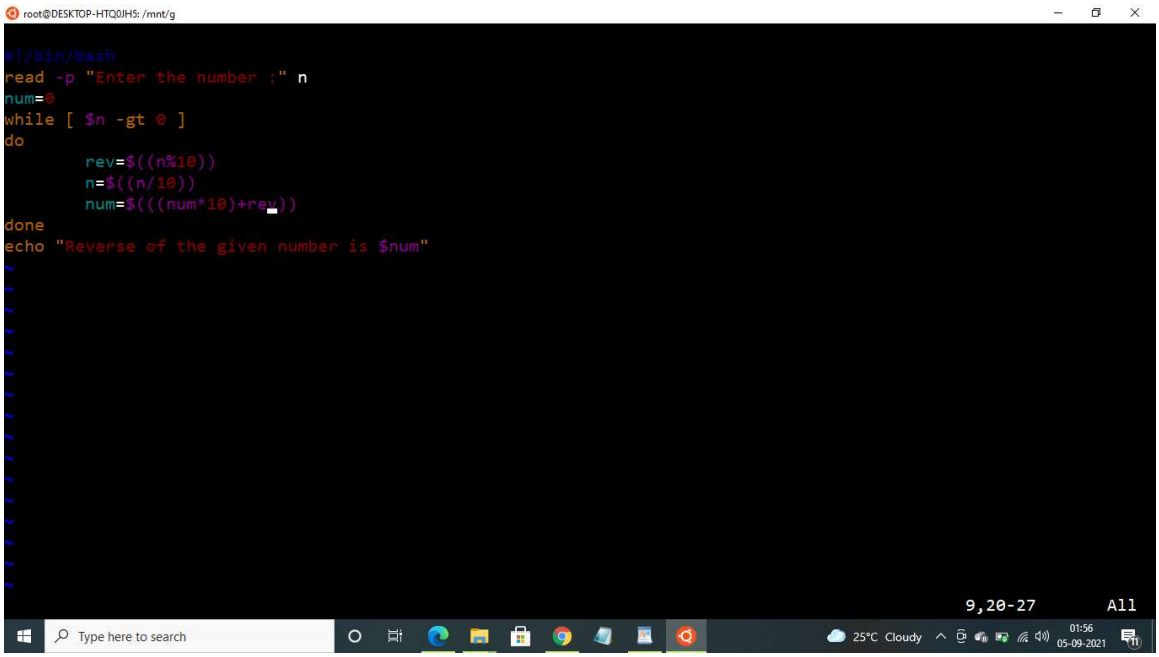
SOURCE CODE &OUTPUT:

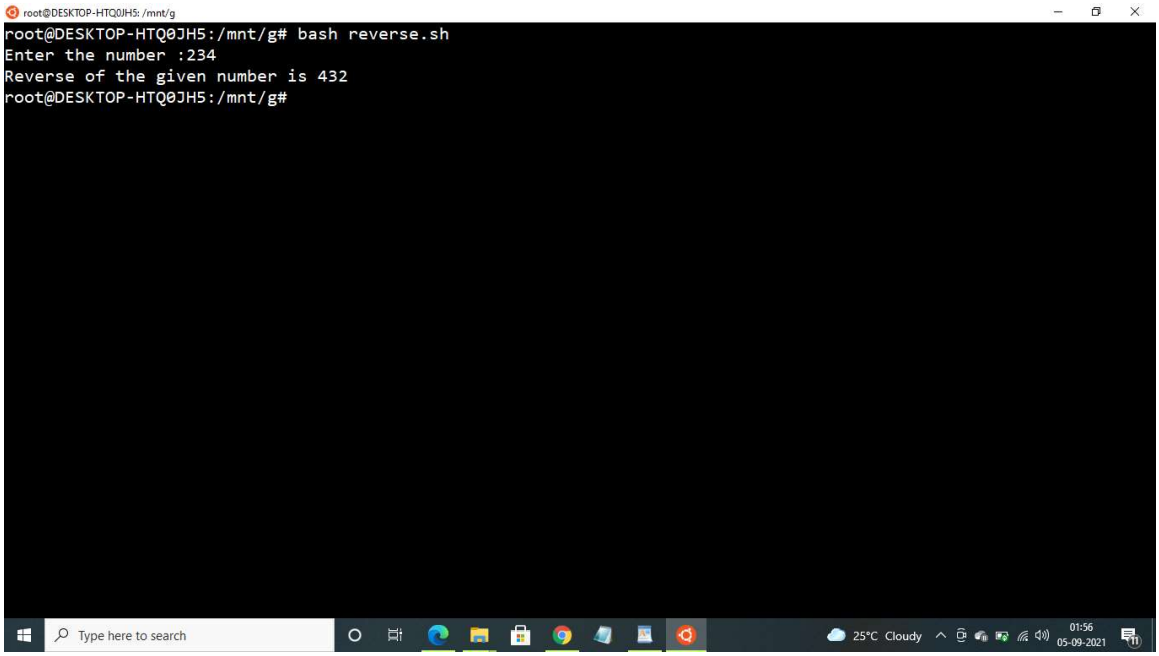




?.15.Write a shell program to reverse a number

SOURCE CODE &OUTPUT:




root@DESKTOP-HTQ0JH5: /mnt/g
root@DESKTOP-HTQ0JH5:/mnt/g# bash reverse.sh
Enter the number :234
Reverse of the given number is 432
root@DESKTOP-HTQ0JH5:/mnt/g#
Type here to search
25°C Cloudy
01:56
05-09-2021