**PHYTHON DJANGO INTERNSHIP REPORT**

**Personal Details**

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Training Duration : 26/05/2021 to 21/06/2021

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**Program 1**

a=int(input("enter first number"))

b=int(input("enter second number"))

c=int(input("enter third number"))

d=int(input("enter fourth number"))

e=int(input("enter fifth number"))

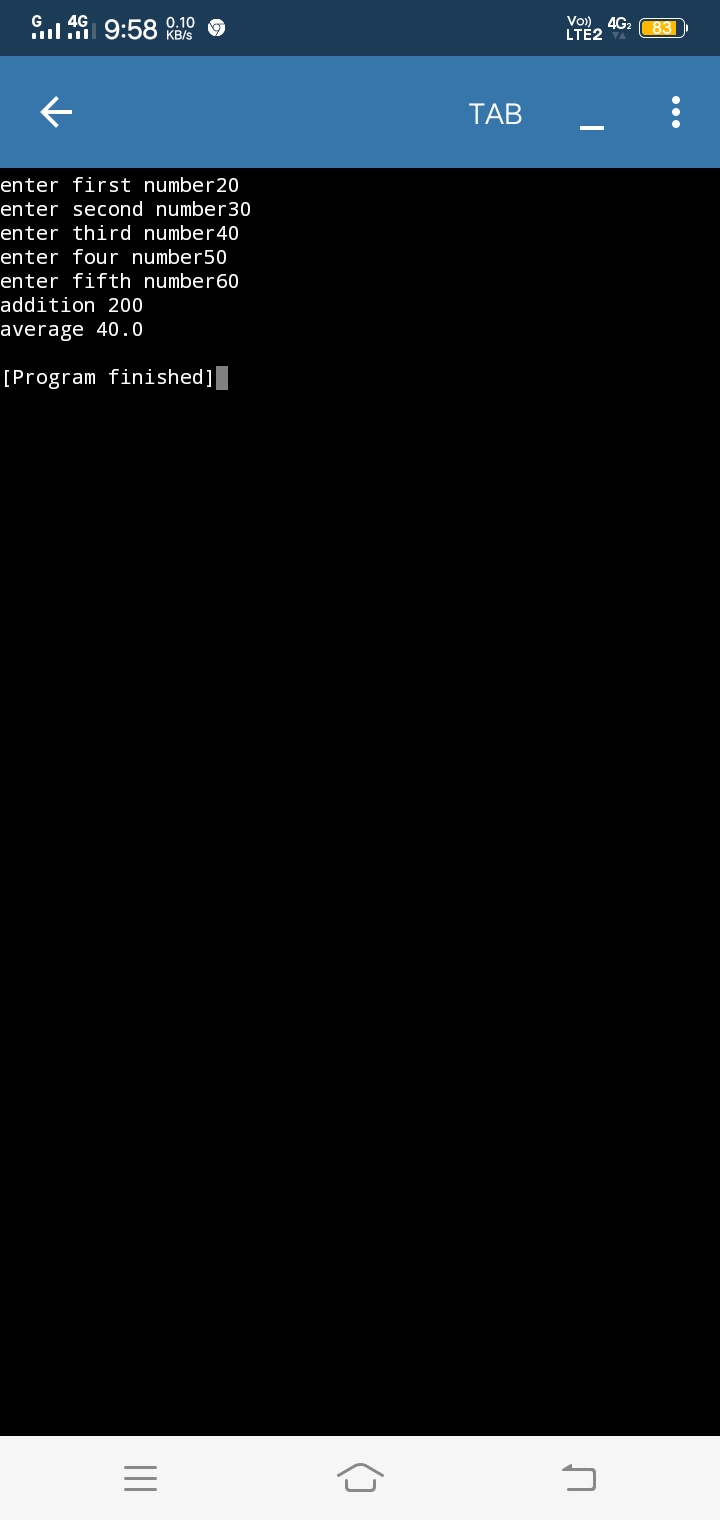
sum=a+b+c+d+e

print("sum is",sum)

average=sum/5

print("average is",average)

M



**program** **2**

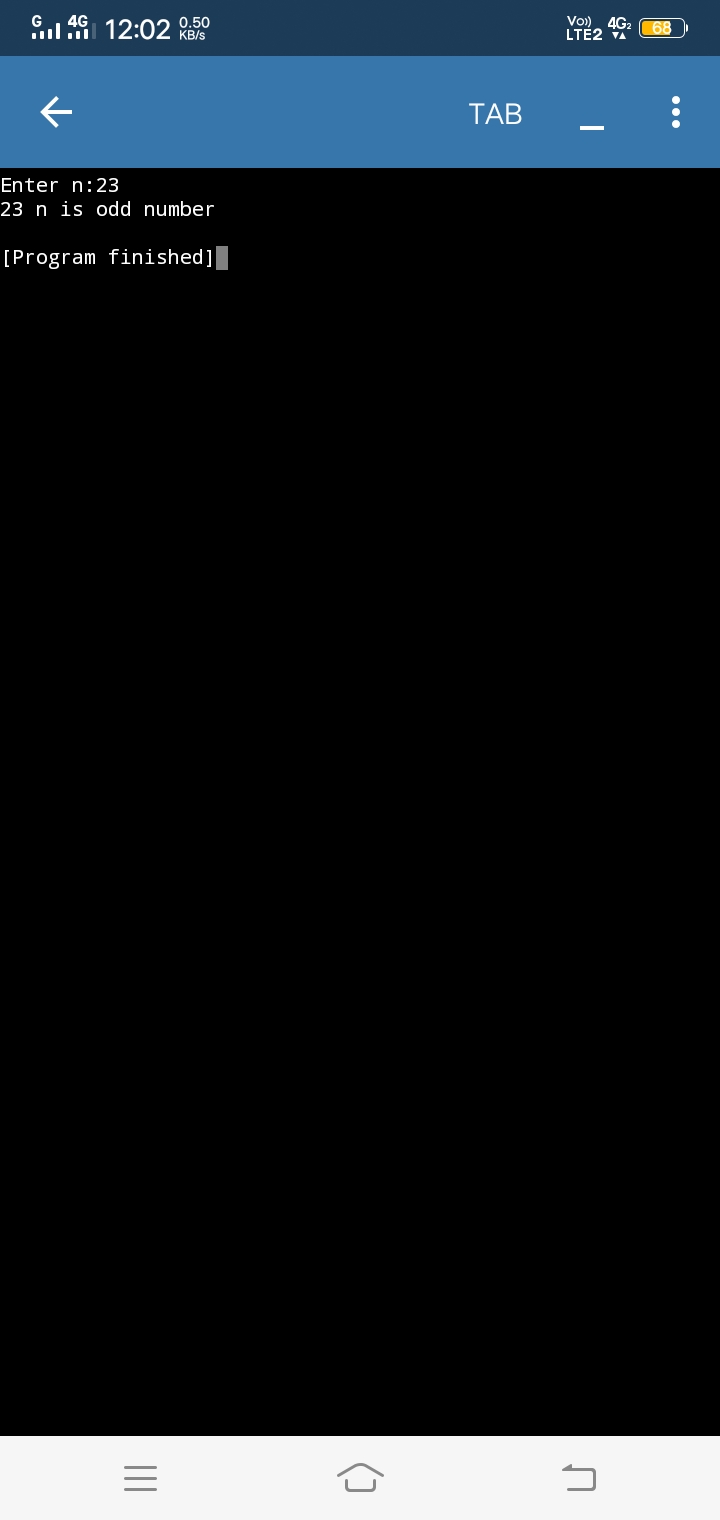
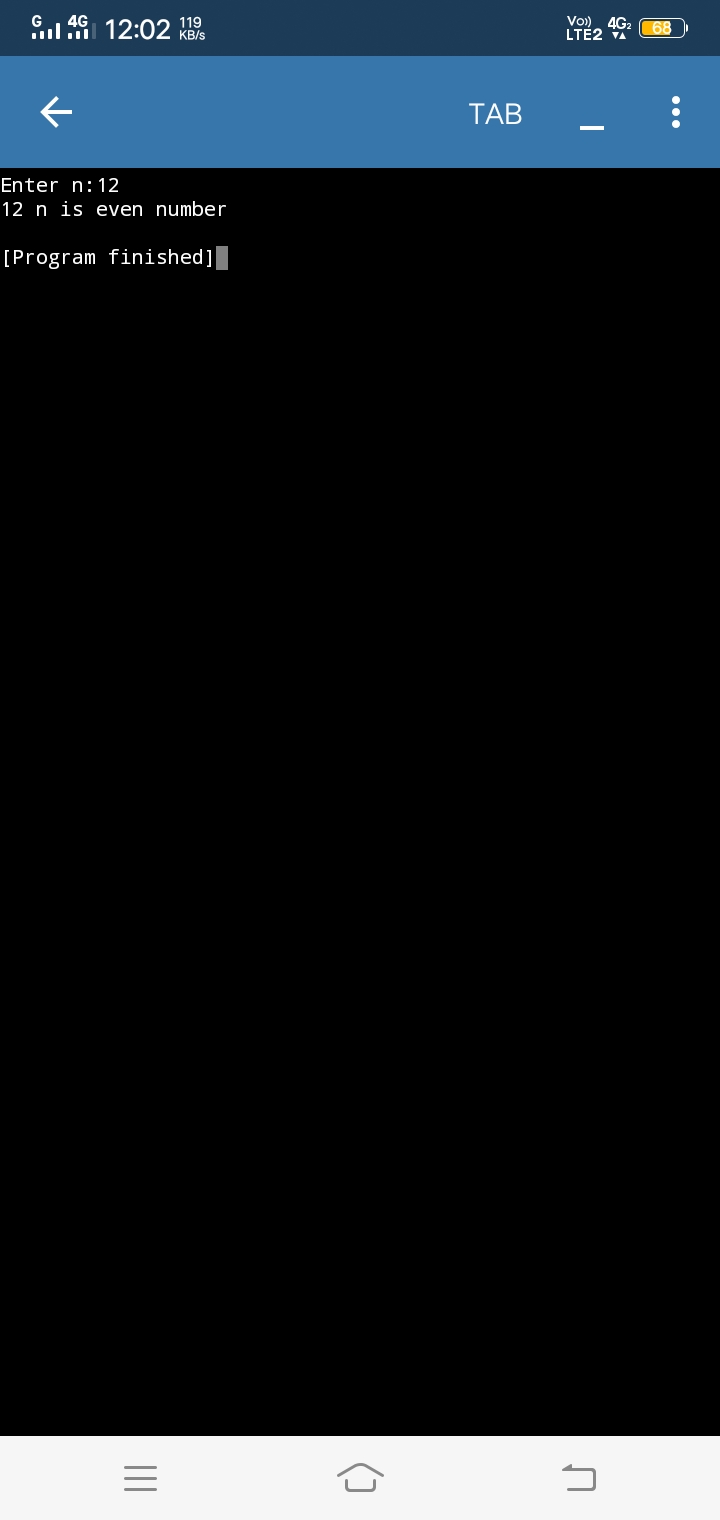
n=int(input("Enter n:"))

if(n%2==0):

print(n,"n is even number")

else:

print(n,"n is odd number")



**Program 3**

year = int(input("enter the year "))

if (year % 400 == 0):

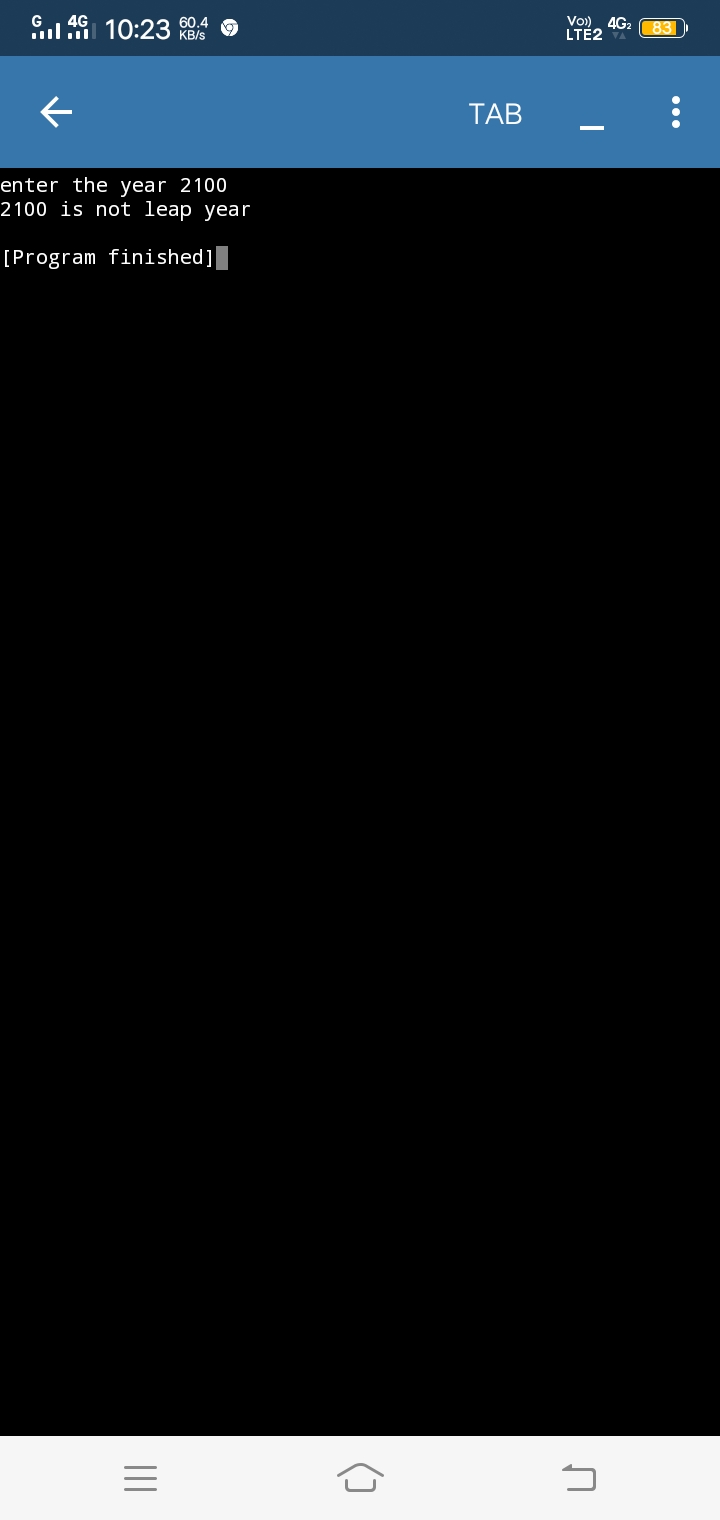
print(year,"is leap year")

elif (year % 4 == 0 and year % 100 != 0):

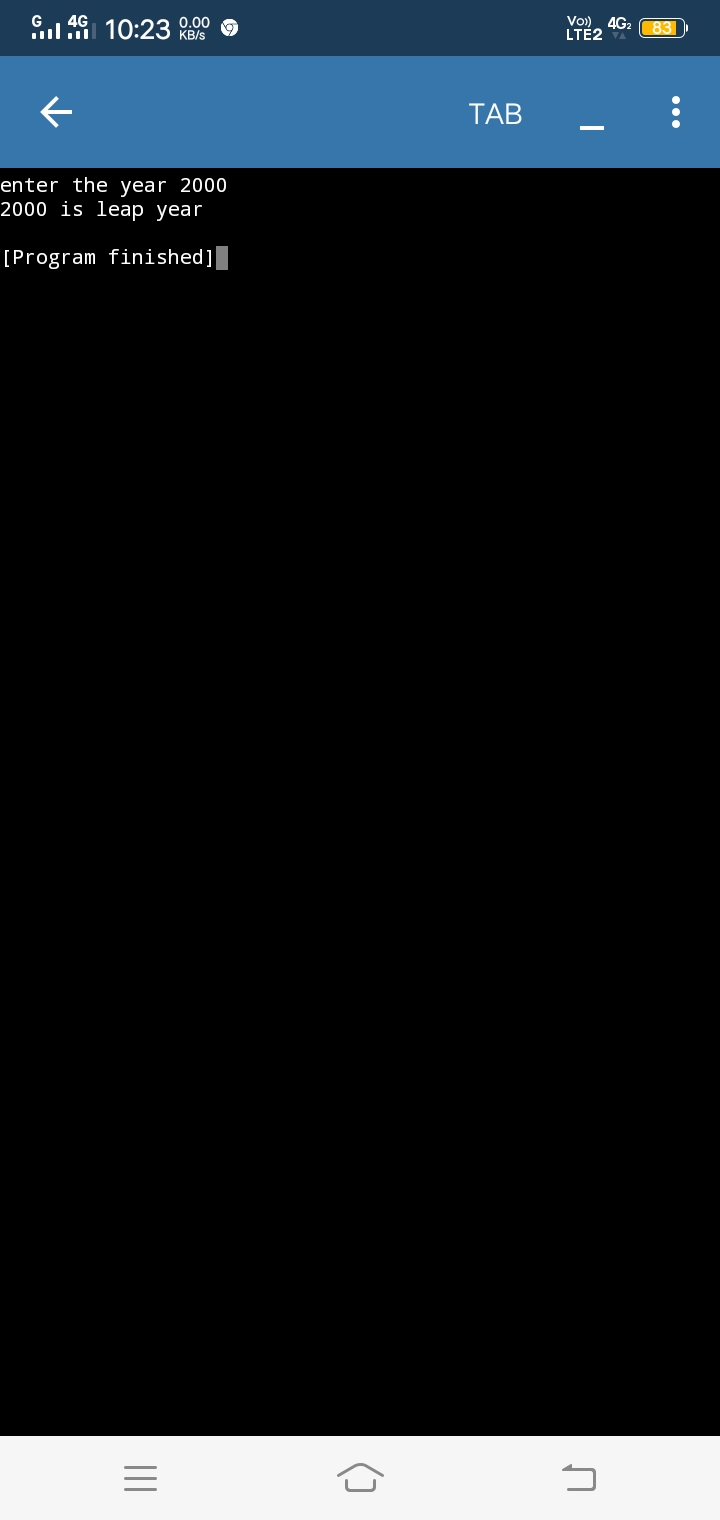
prinr(year,"is leap year")

else:

print(year,"is not leap year")



**Program 4**



x = int(input("enter a number "))

if x > 0:

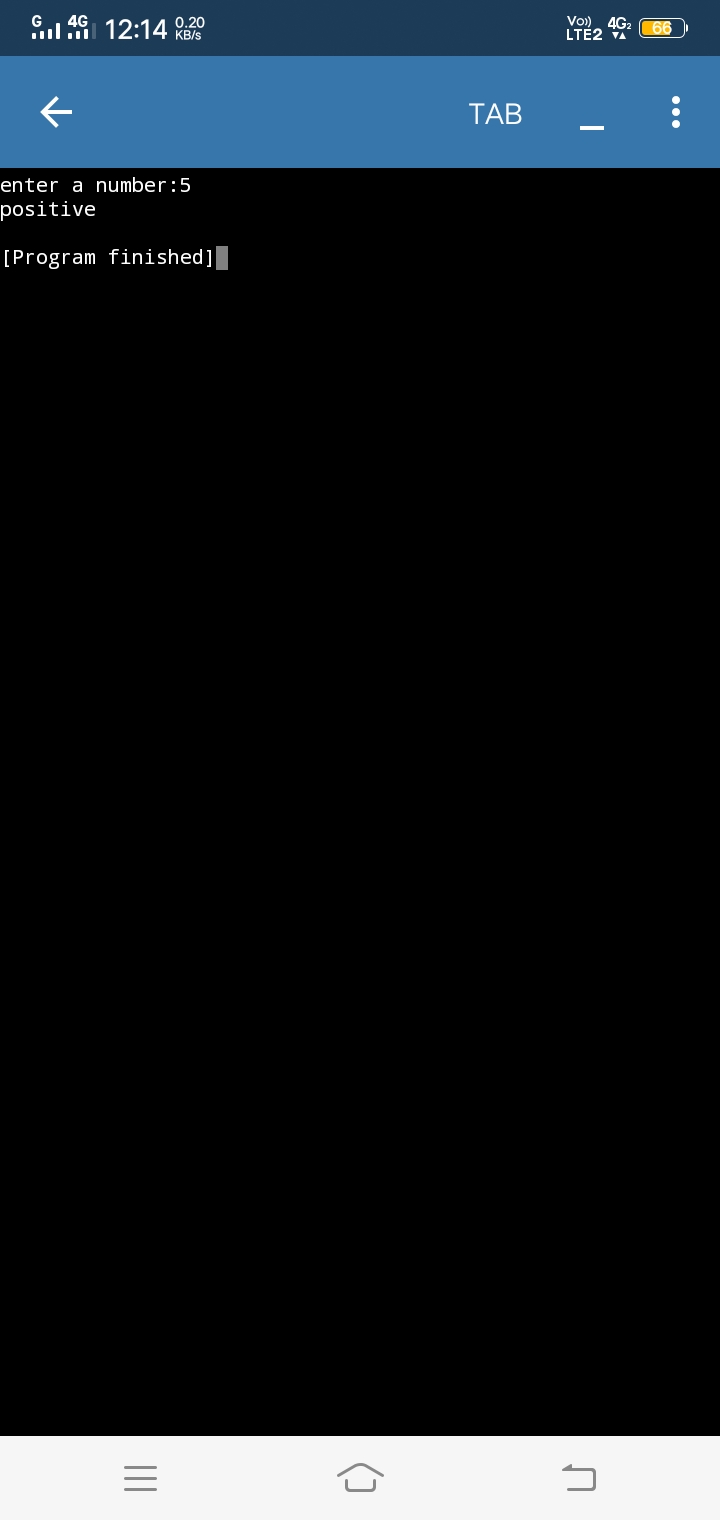
print("positive")

elif x < 0:

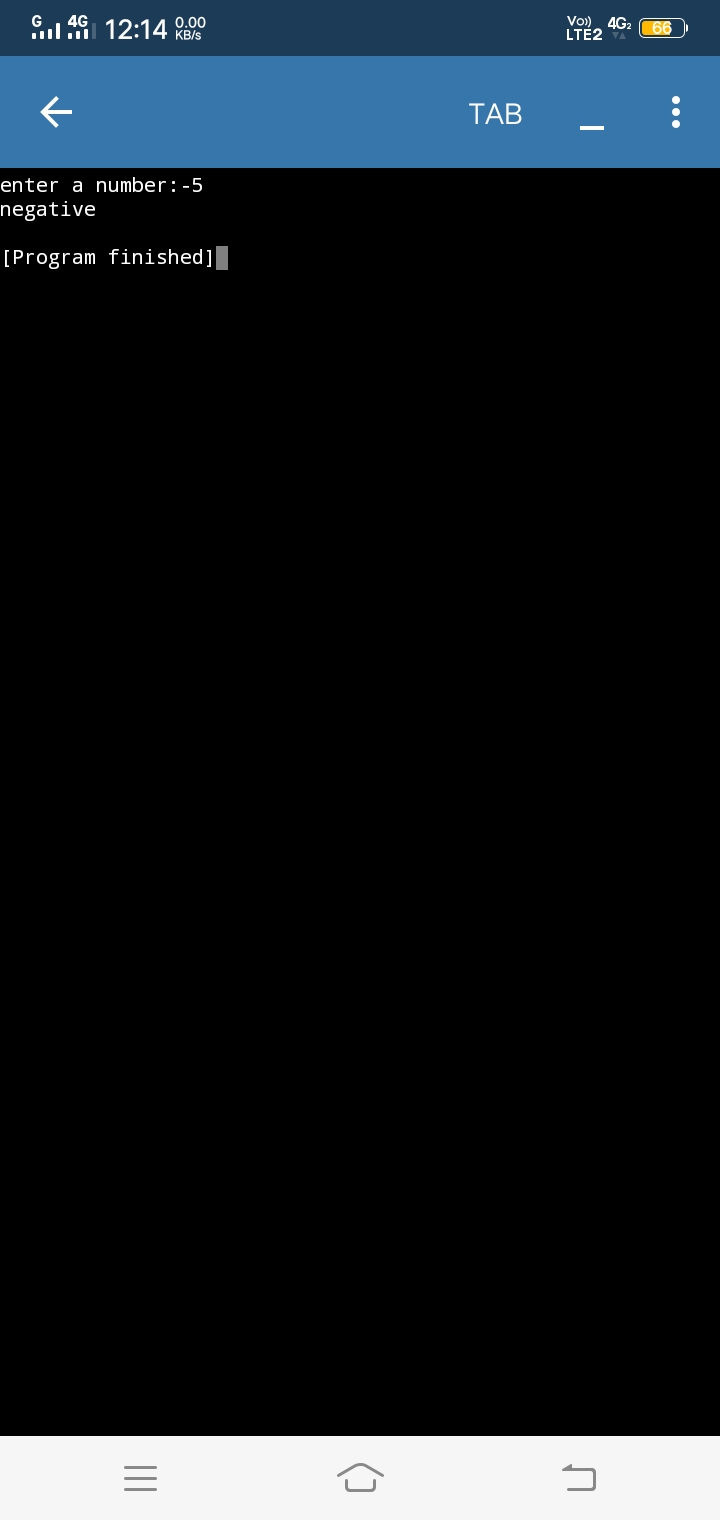
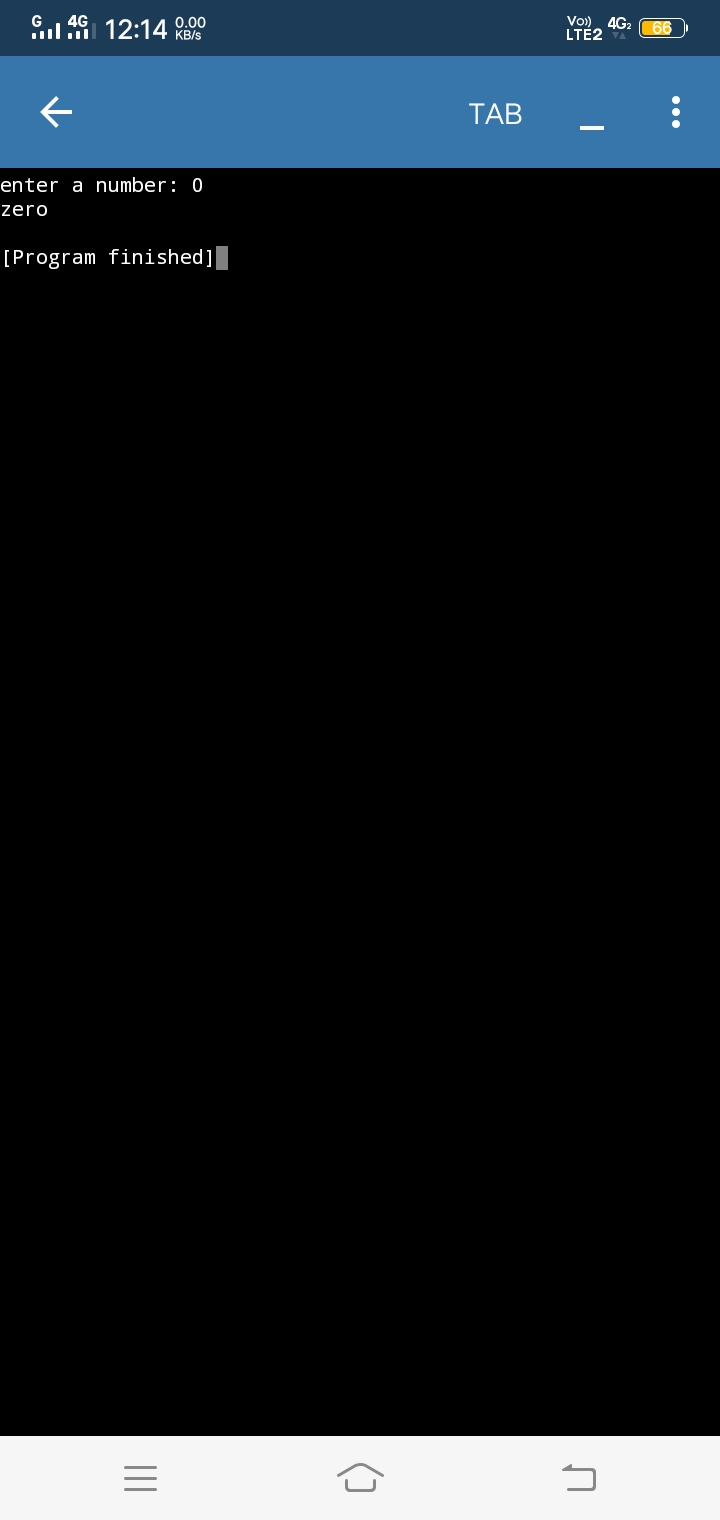
print("negative")

else:

print("zero")



**Program 5**



a = int(input("Enter a value"))

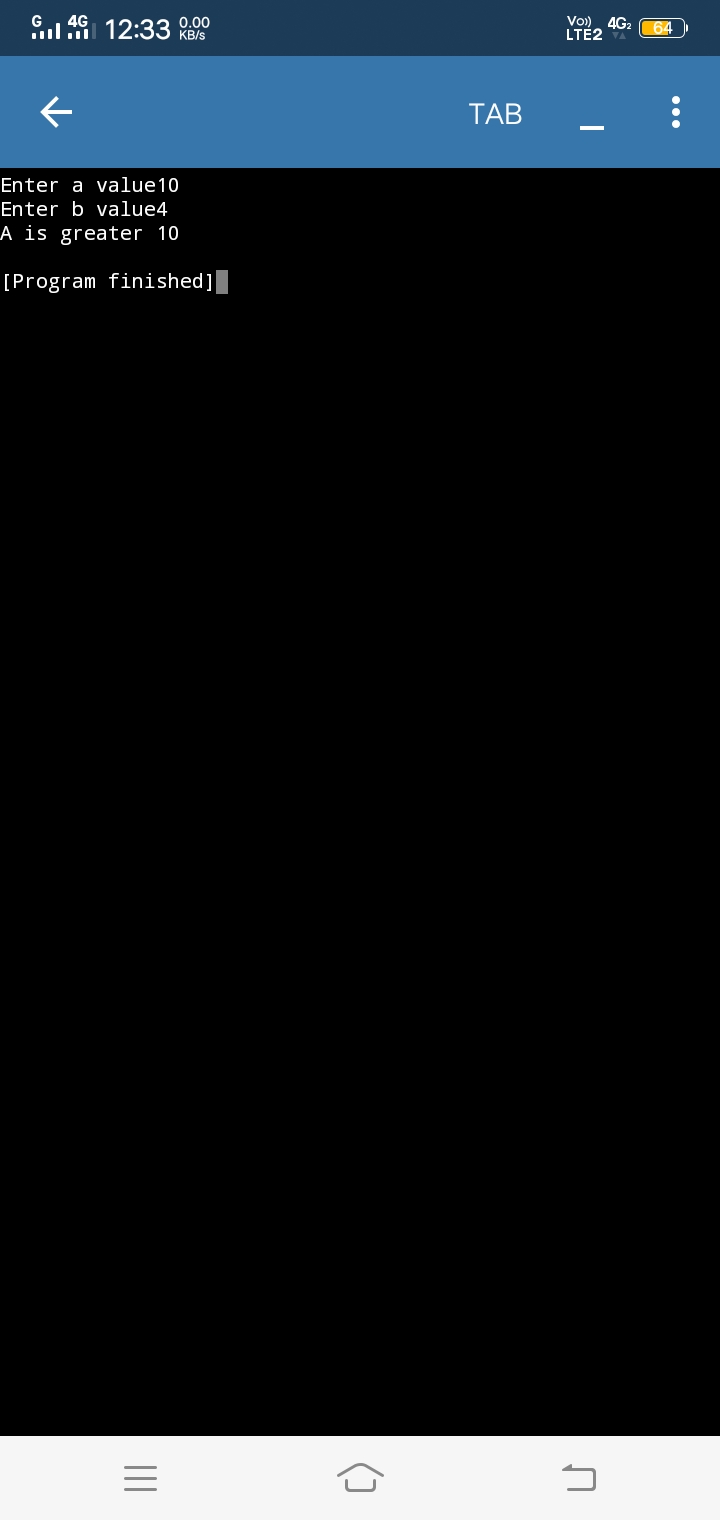
b =int(input("Enter b value"))

if a > b:

print("A is greater",a)

else:

print("B is greater",b)



**Program 6**

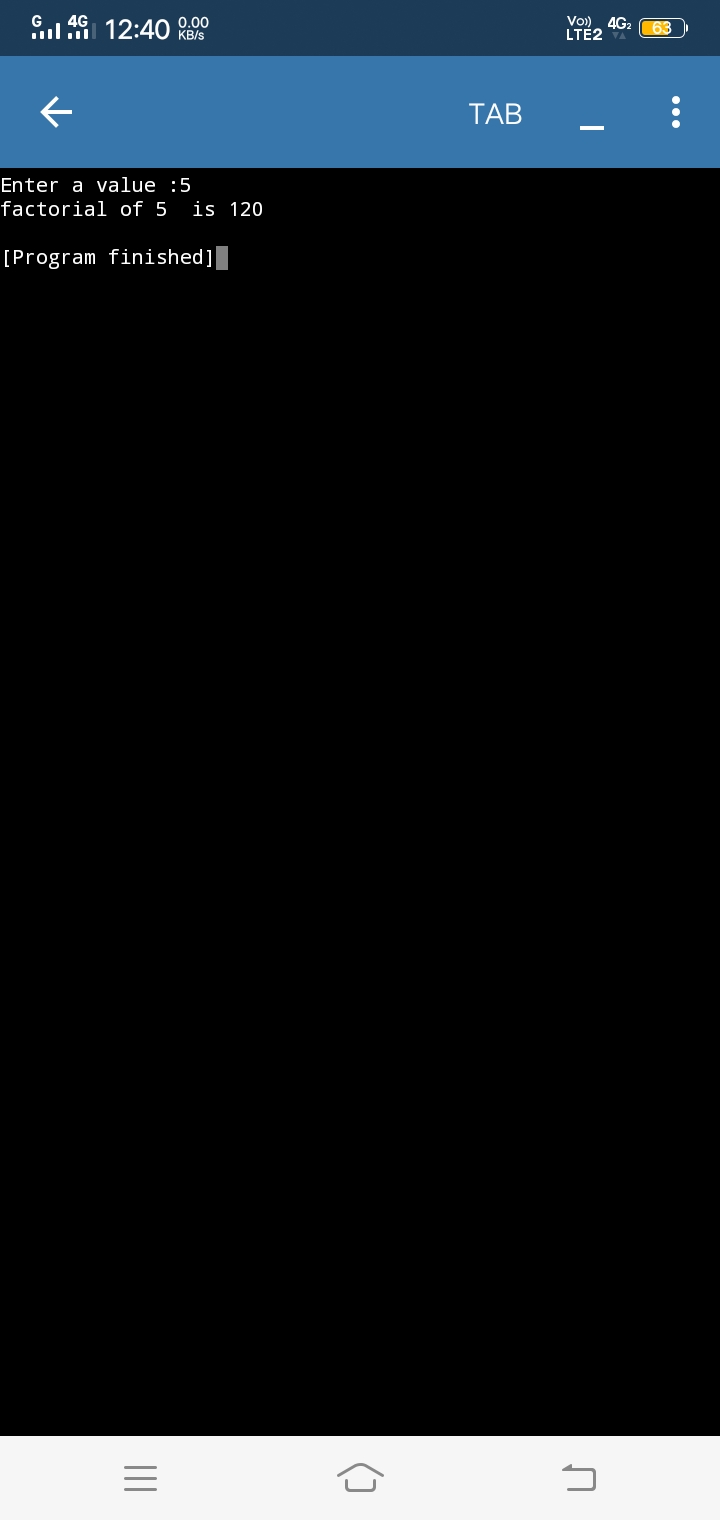
n = int(input("Enter a value :"))

result = 1

for i in range(n,0,-1):

result = result\*i

print("factorial of" ,n," is",result)



**Program 7**

a = int(input("Enter the value of a "))

b = int(input("Enter the value of b "))

temp = a

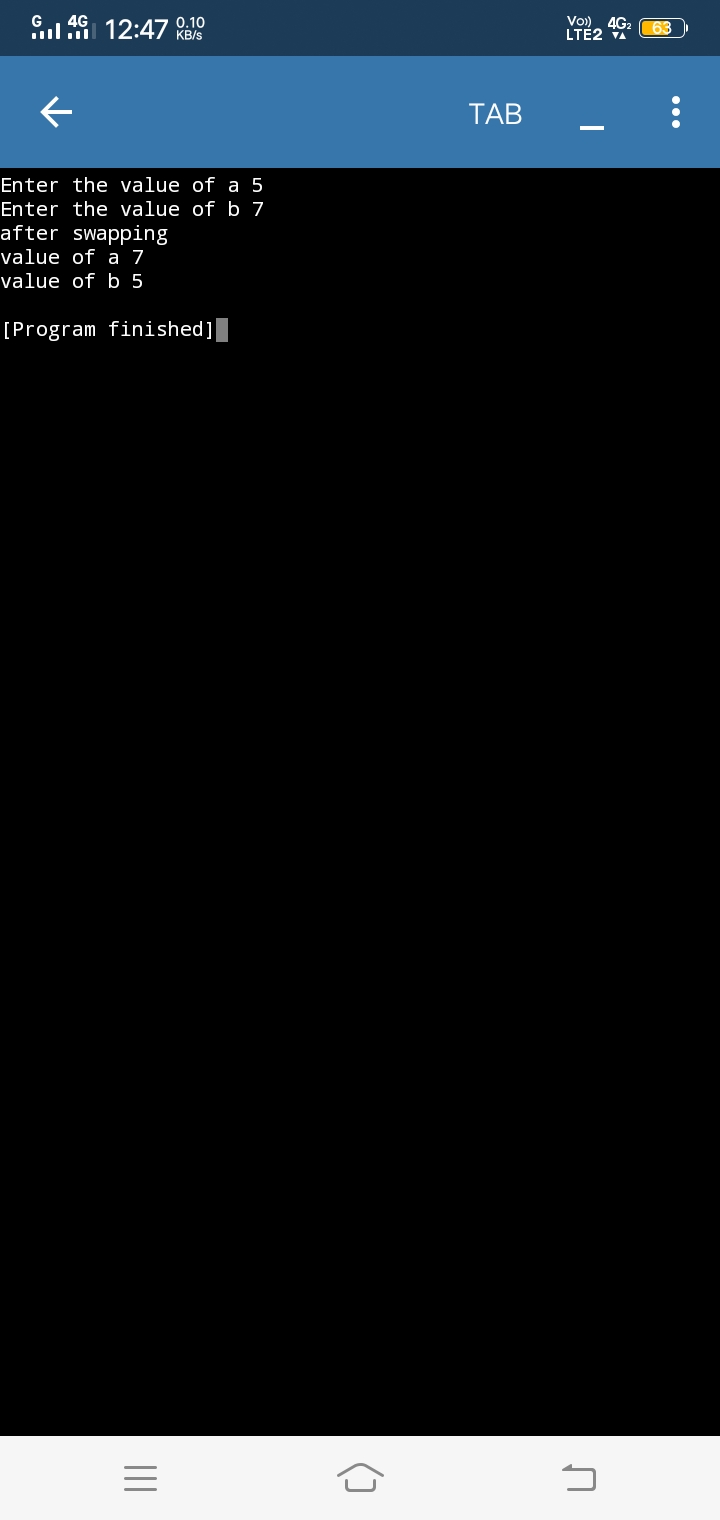
a = b

b = temp

print("after swapping")

print("value of a",a)

print("value of b",b)



**Program 8**

a=int(input("Enter A value "))

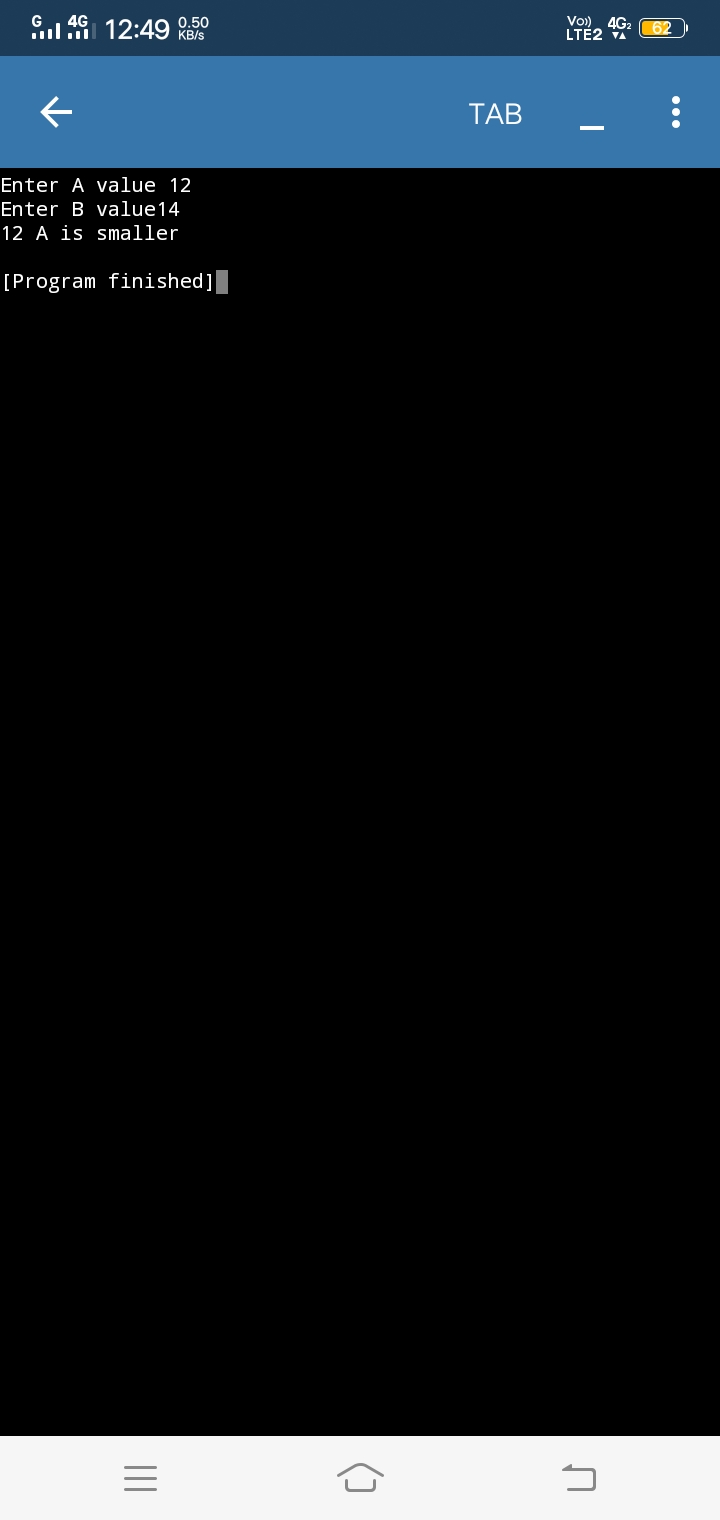
b=int(input("Enter B value"))

if(a<b):

print(a,"A is smaller")

else:

print(b,"B is smaller")



**Program 9**

n1 = int(input("enter a no:"))

if n1<100:

if n1%2==0:

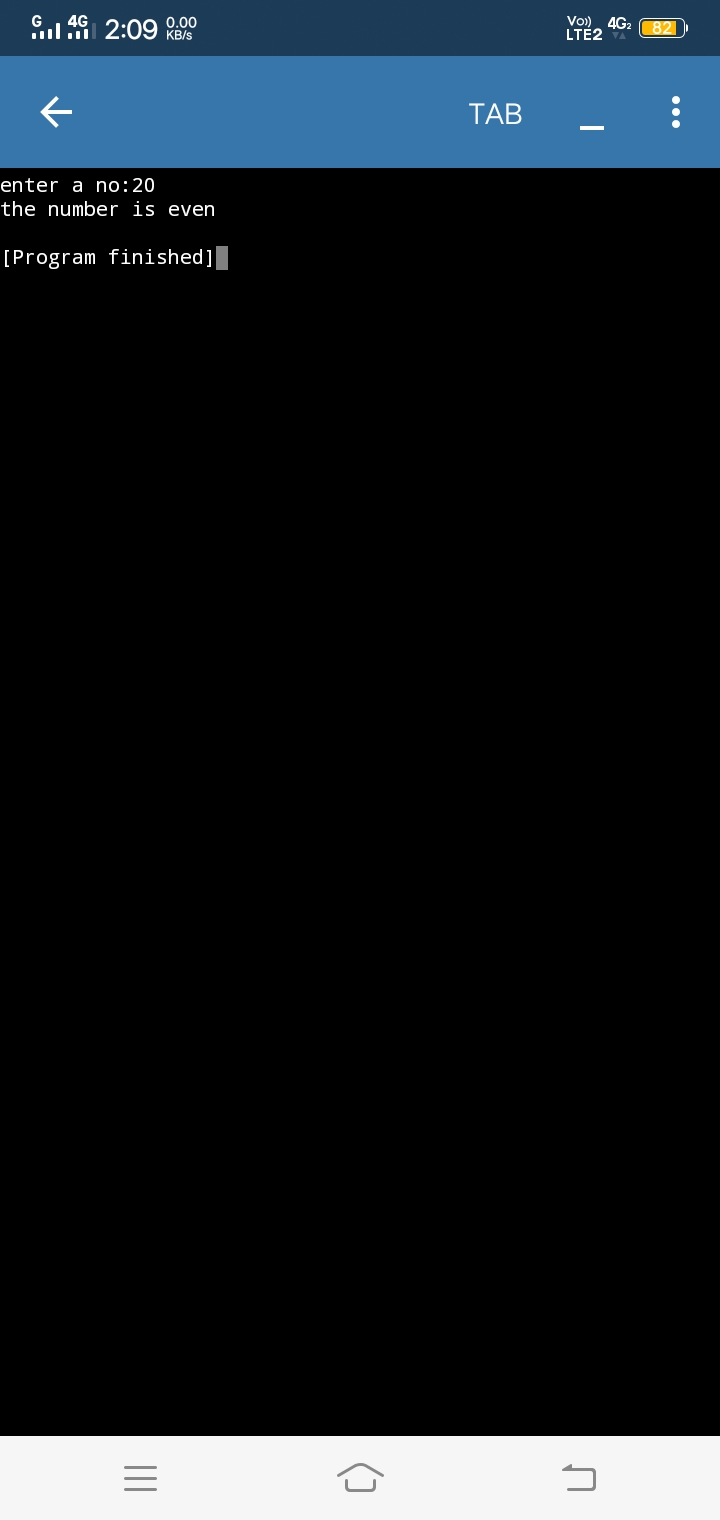
print("the number is even")

else:

print("the number is odd")

else:

print("the number is less than 100")



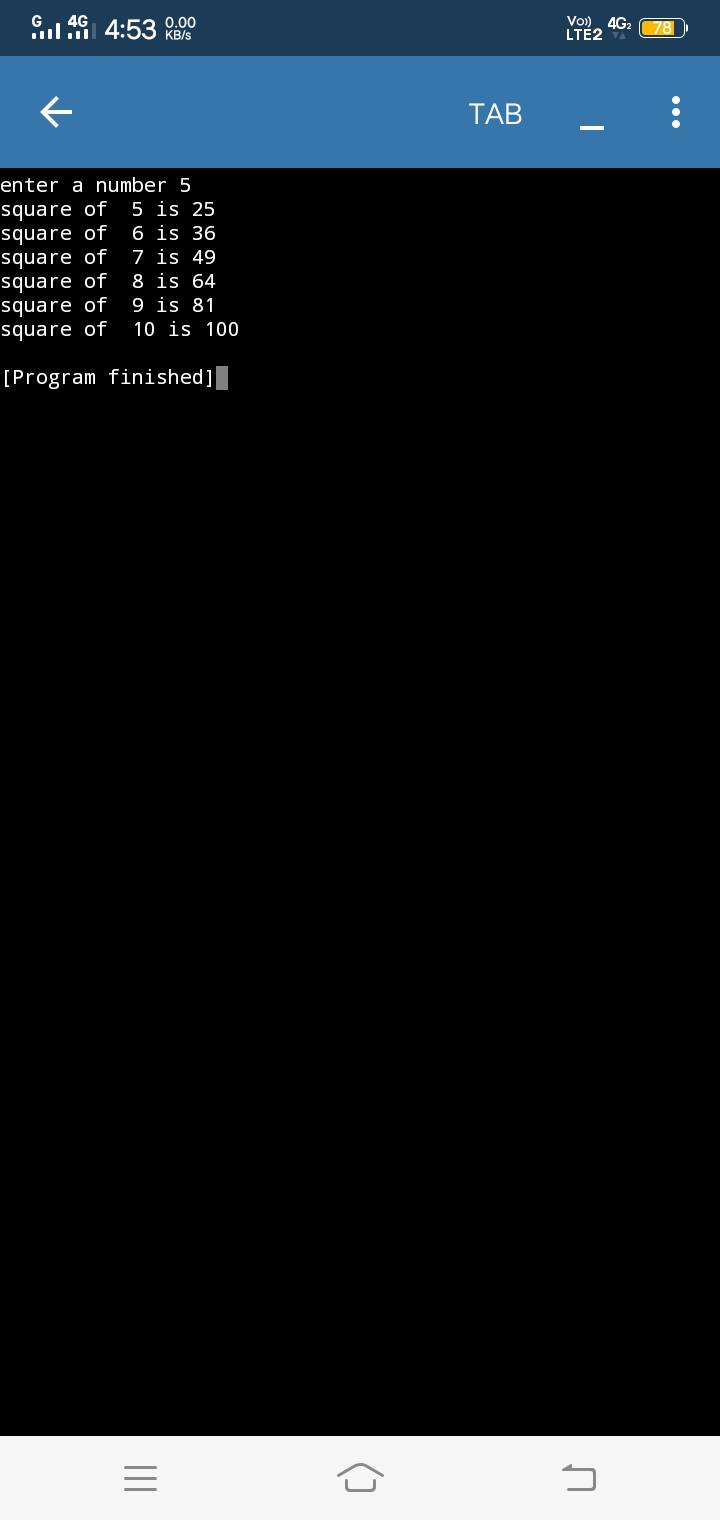
**Program 10**

a = int(input("enter a number"))

while a <=10:

print("square of ",a,"is",a\*a)

a =a + 1



**Program 11**

a = int(input("Enter a number"))

if a >= 0:

if a == 0:

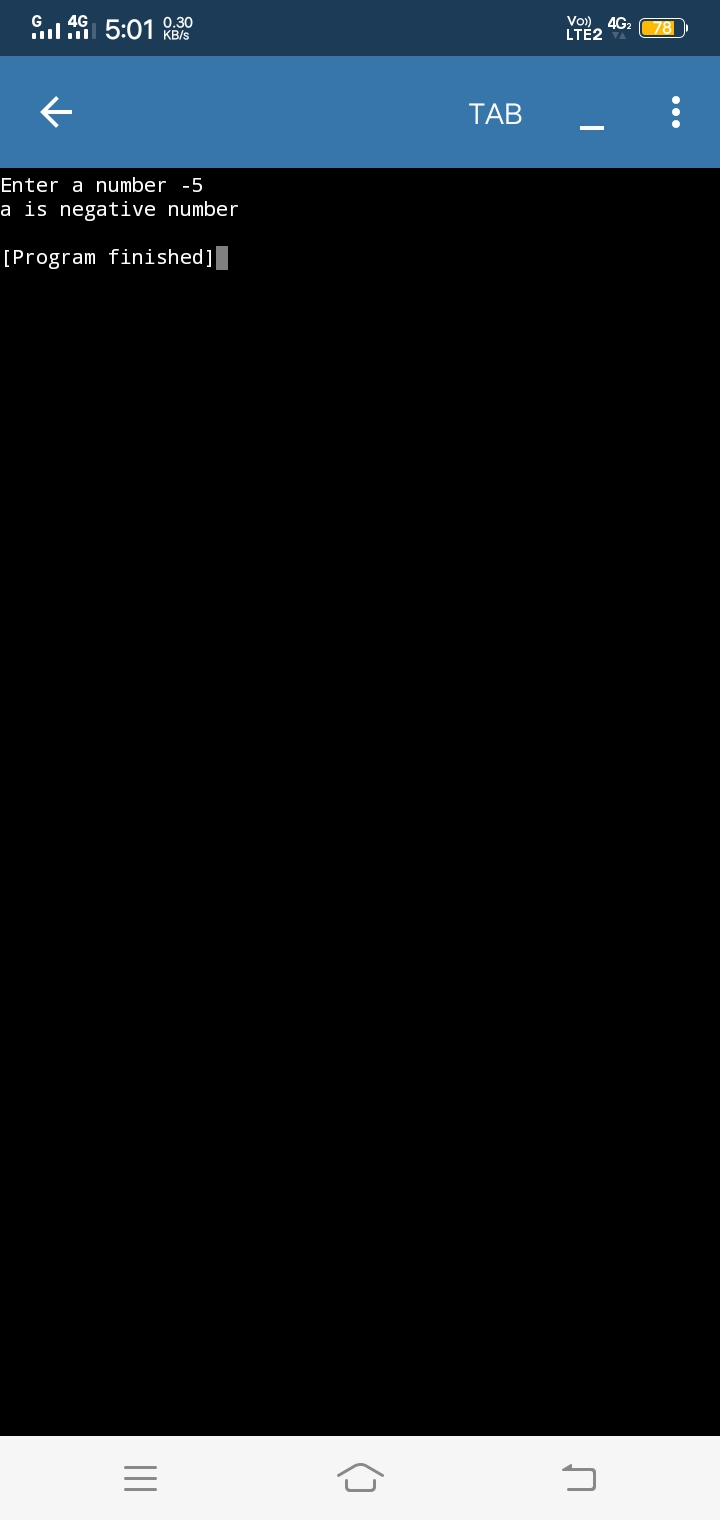
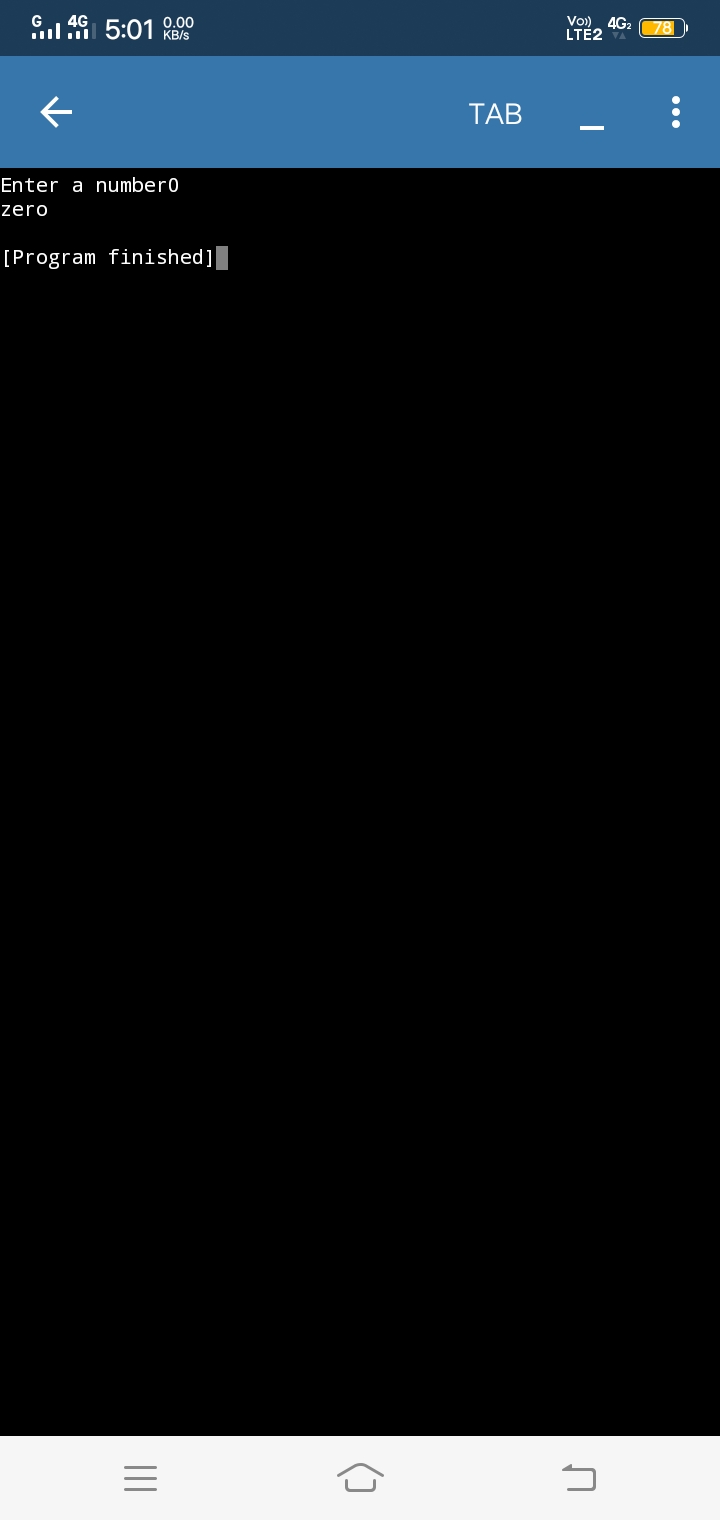
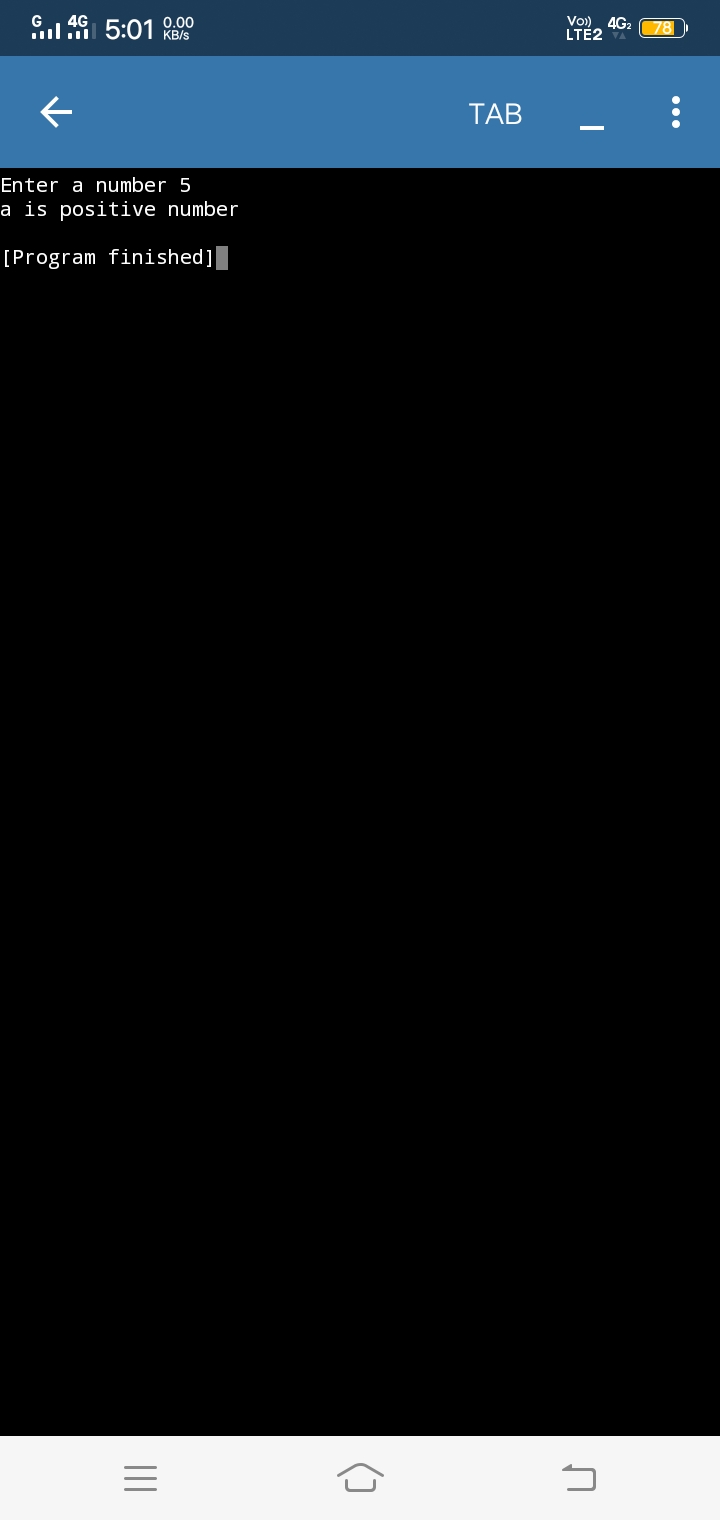
print("zero")

else:

print("a is positive number")

else:

print("a is negative number")



**Program 12**

a=int(input("Enter first number"))

b=int(input("Enter second number"))

c=int(input("Enter third number"))

if a>b:

if a>c:

print("a is the greatest number")

else:

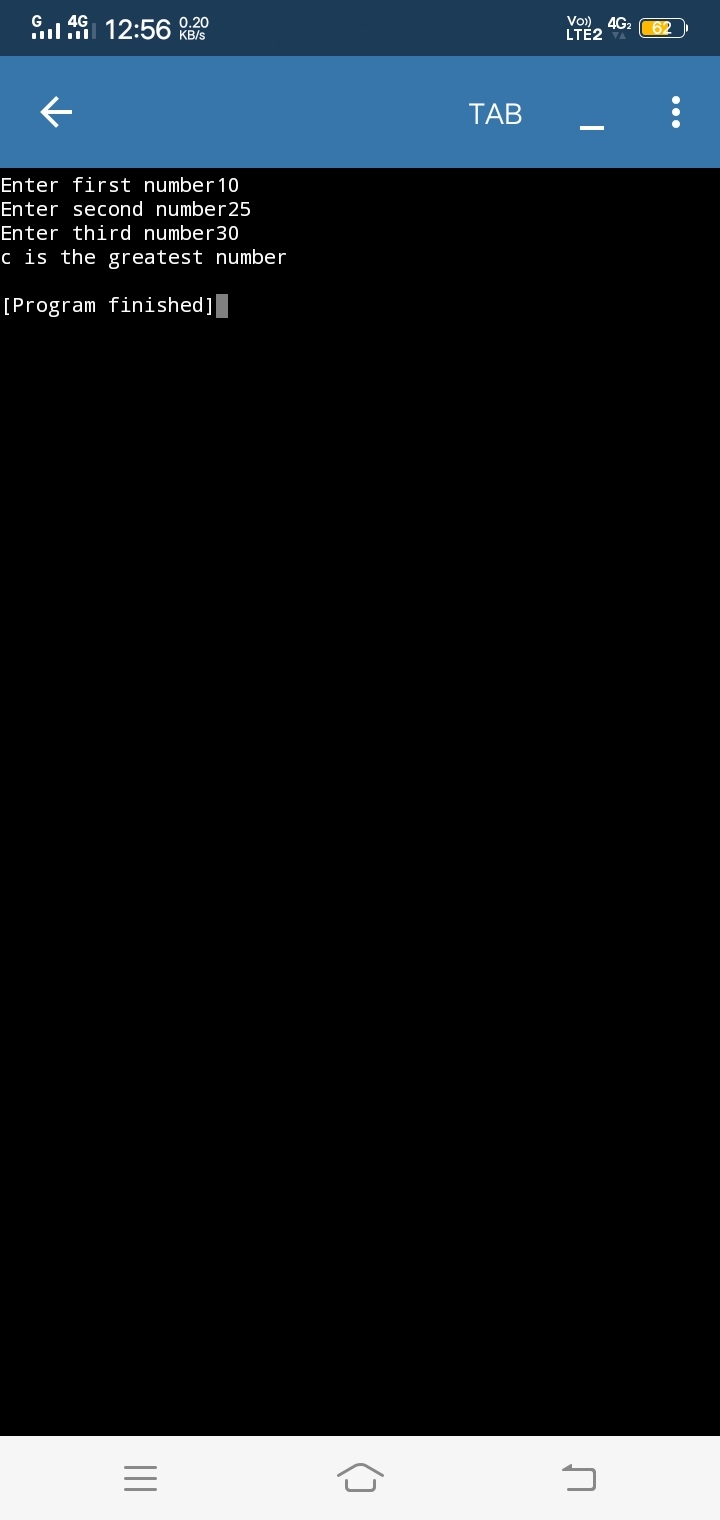
print("c is the greatest number")

if b>c:

print("b is the greatest number")

else:

print("c is the greatest number ")



**Program 13**

n1=int(input("Enter 1st number"))

n2=int(input("Enter 2nd number"))

n3=int(input("Enter 3re number"))

if(n1<n2):

if(n1<n3):

print("n1 is the smallest number")

else:

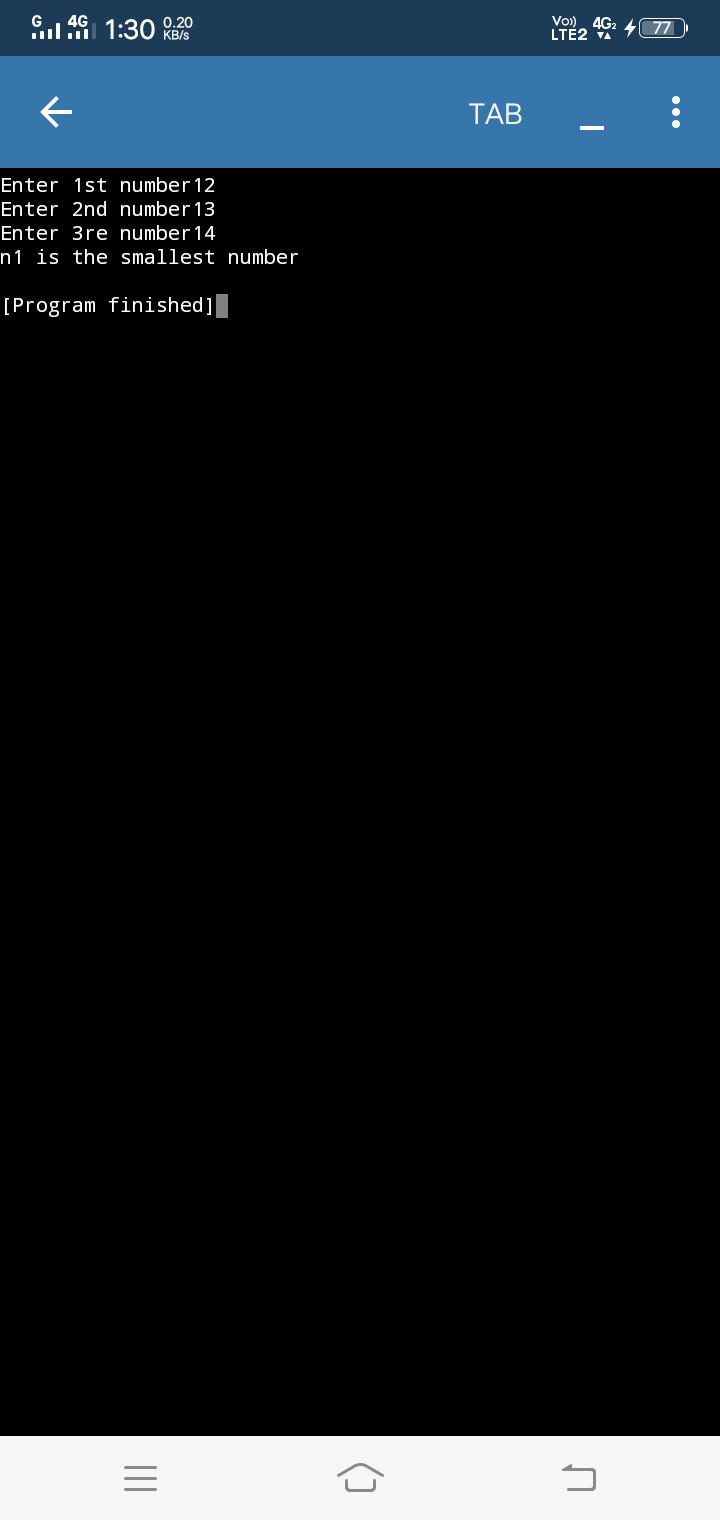
print("n3 is the smallest number")

elif(n2<n3):

print("n2 is the smallest number")

else:

print("n3 is the smallest number")



**Program 14**

a = int(input("enter the value of a "))

b = int(input("enter the value of b "))

a = a + b

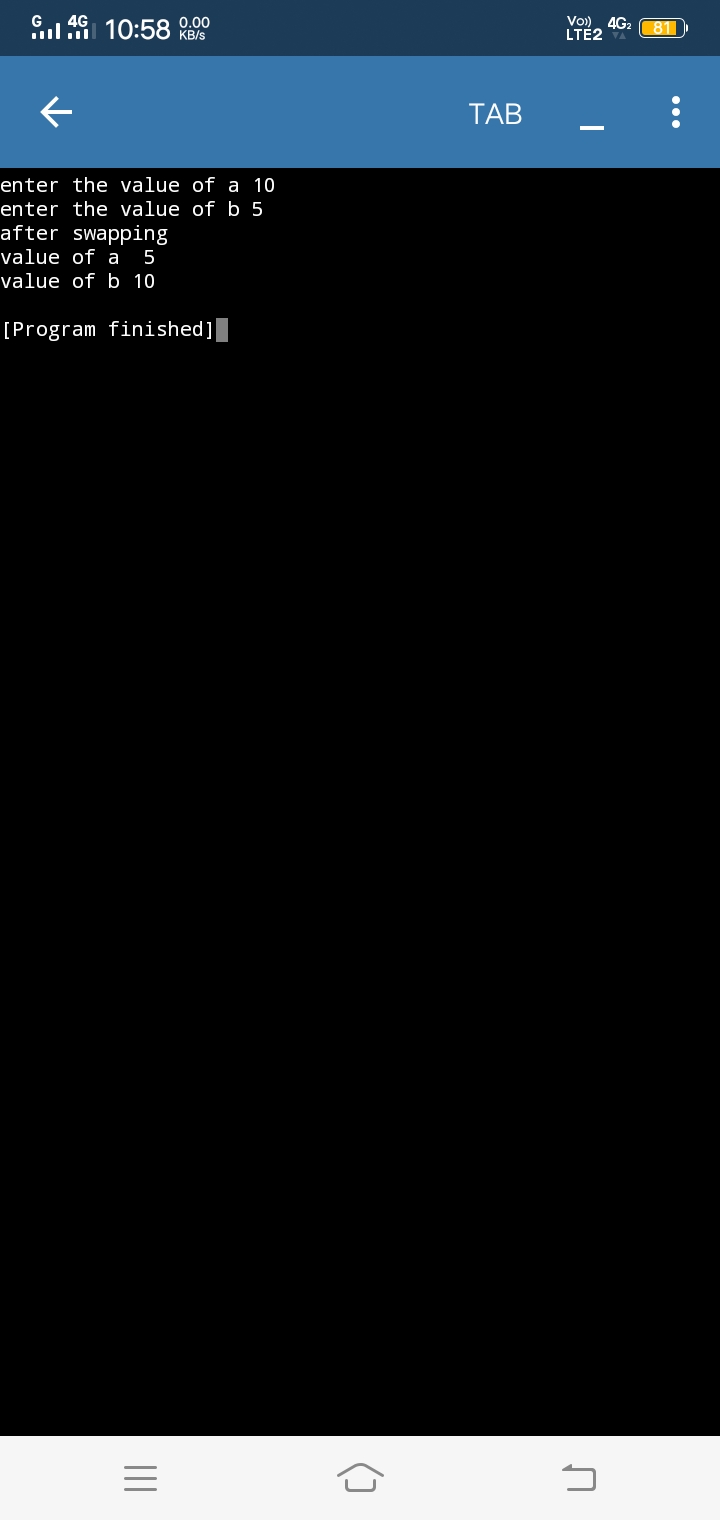
b = a - b

a = a - b

print("after swapping ")

print("value of a ",a)

print("value of b",b)



**Program 15**

n1 =int(input("enter the starting number "))

n2=int(input("enter the ending numbe"))

for i in reversed (range(n2,n1+1,3)):

print(i)

n1 =int(input())

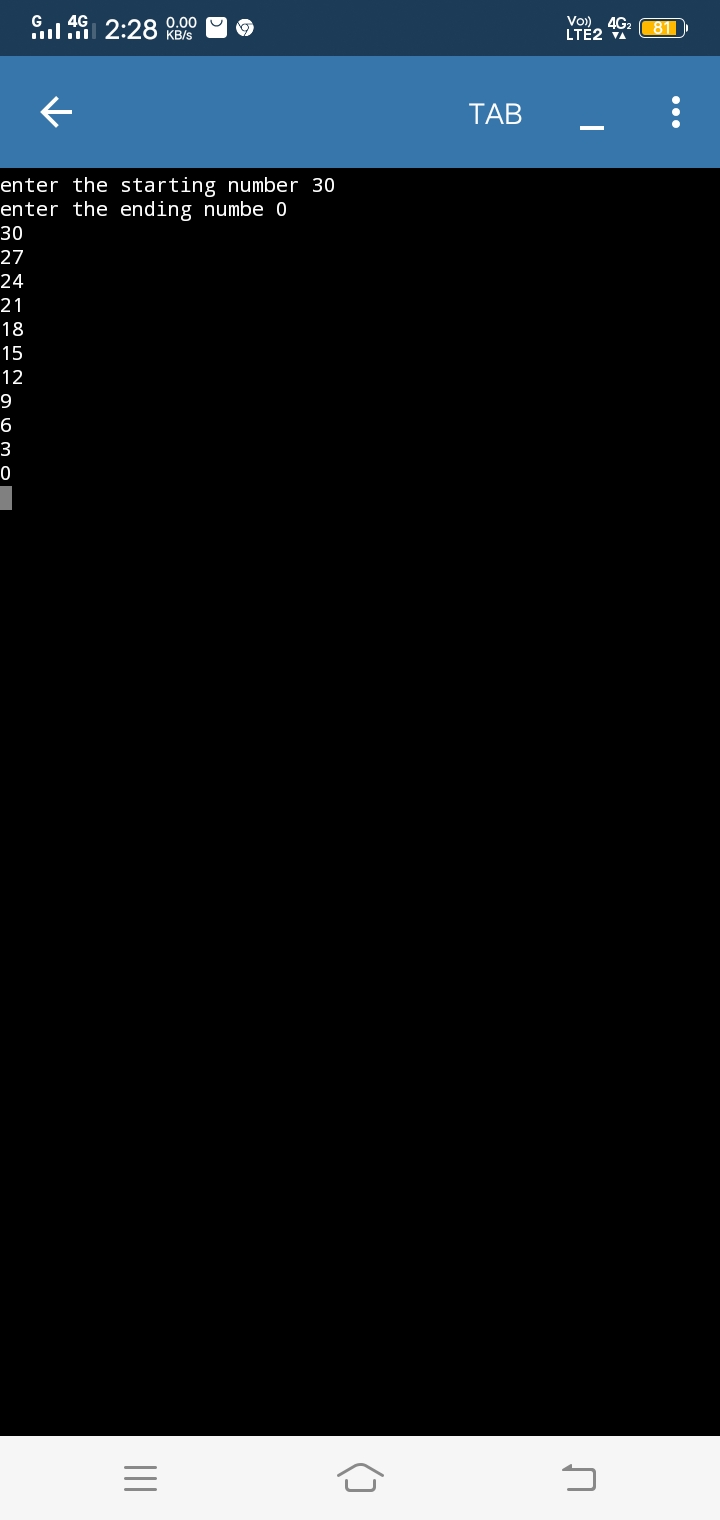
n2 =int(input())

while n1>=n2:

print(n1)

n1=n1-3

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| 2 | create class cal2 that will calculate area of a circle.create set data() that should be take radius from the user.create area() method that will calculate area.create display() method that will display area. | 3 to 4 |
| 3 | Create a class cal3 that will calculate simple interest.create constructor method which has three parameters.create callinterest() method that will calculate interest.create display() method that will display interest. | 5 to 6 |
| 4 | Create a class cal4 that will calculate square of number.create set data() method which has one parameter that contain number.create display() method will calculate sum | 7 to 8 |
| 5 | Consider an employee class,which contains fields such as name and designation.and a subclass,which contains a field salary .write a program to inheriting this relation |  |
| 6 | Create a class cal6 that will calculate area of square.create setdata() that should take length from the user.create area() method that will calculate area.create display() method that will display area. |  |
| 7 | Write a program with use of inheritance.define a class publisher that store the name of the title.derive two classes block and tape,which inherit publisher.book class contain member data called page no and tape class contain for playing.define function in the appropriate class to get and print the details. |  |
| 8 | Create a a arith class.the class should be have a parameterized constructor and methods to add,subtract,multiply two numbers and to return the answers. |  |

**Program 1**

class cal1:

def setdata(self,n1,n2,n3):

sum=n1+n2+n3

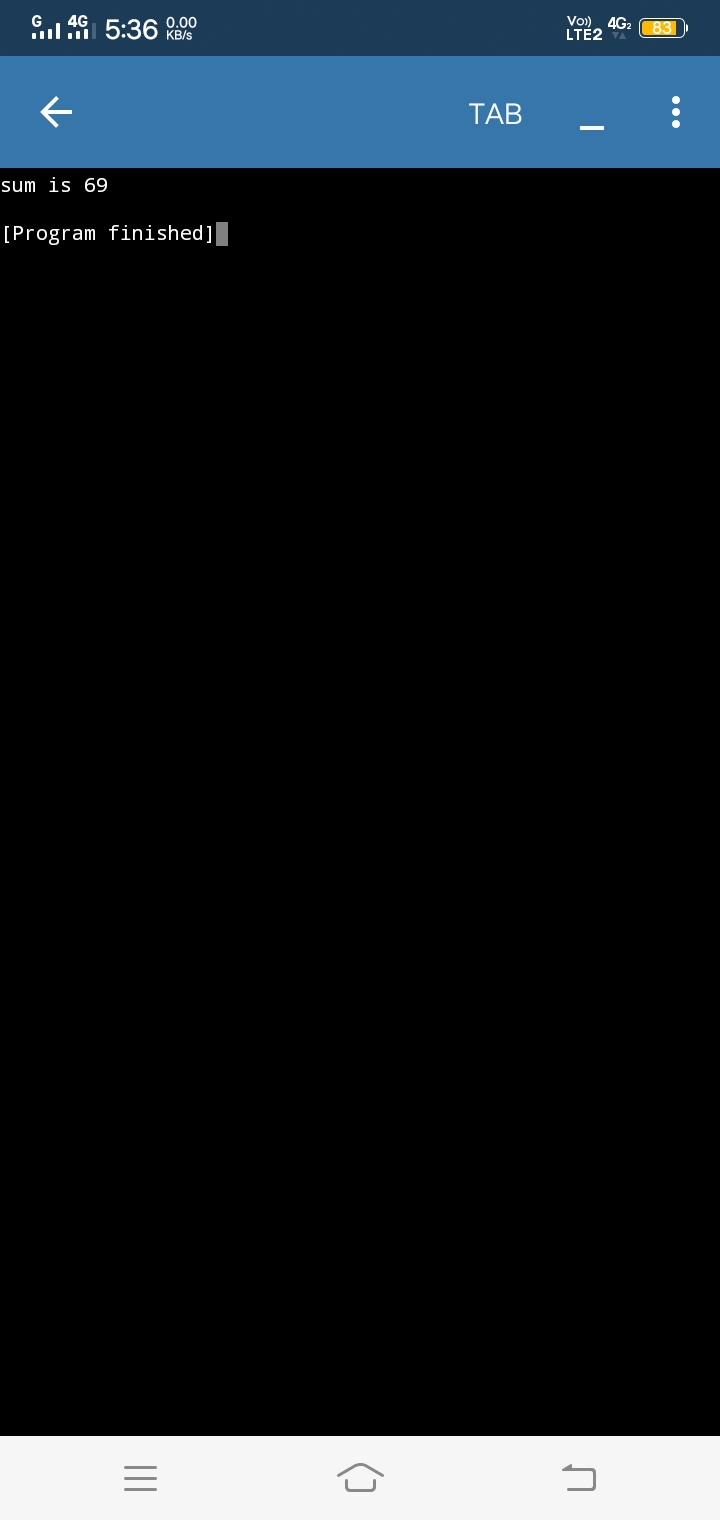
def display(self,sum):

print("sum is",sum)

fun = cal1()

fun.setdata(12,23,34)

fun.display(69)



**Program 2**

import math

class cal2:

radius = 0

def setdata(self):

self.radius = float(input("enter the radious of circle "))

def area(self):

self.a = math.pi \*(self.radius\*\*2)

def display(self):

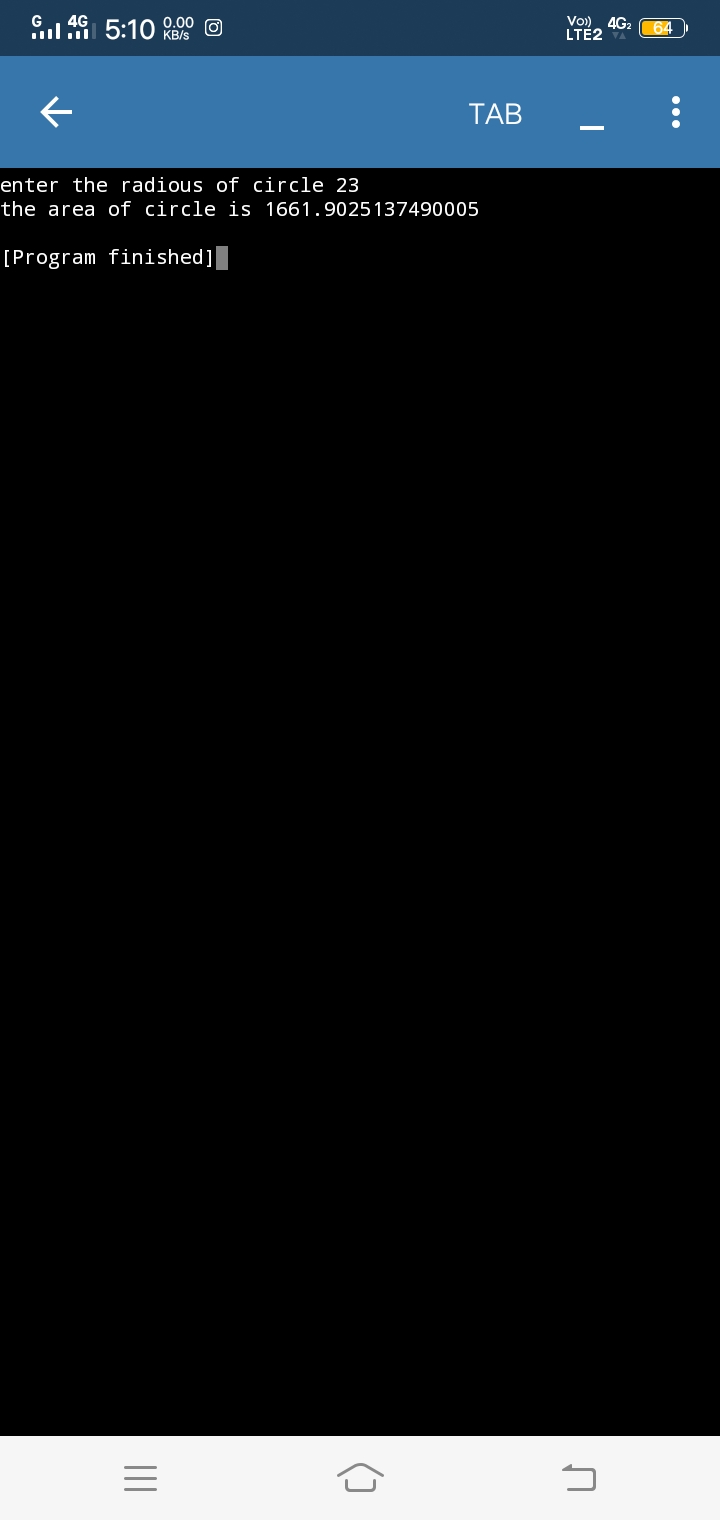
print("the area of circle is",self.a)

fun = cal2()

fun.setdata()

fun.area()

fun.display()



**Program 3**

class cal3:

def \_init\_(self,p,t,r):

self.p = p

self.t = t

self.r = r

def callinterest(self,p,t,r):

print("The principle is ",p)

print("The time period is",t)

print("The rate of interest is",r)

si = ( p \* t \* r)/100

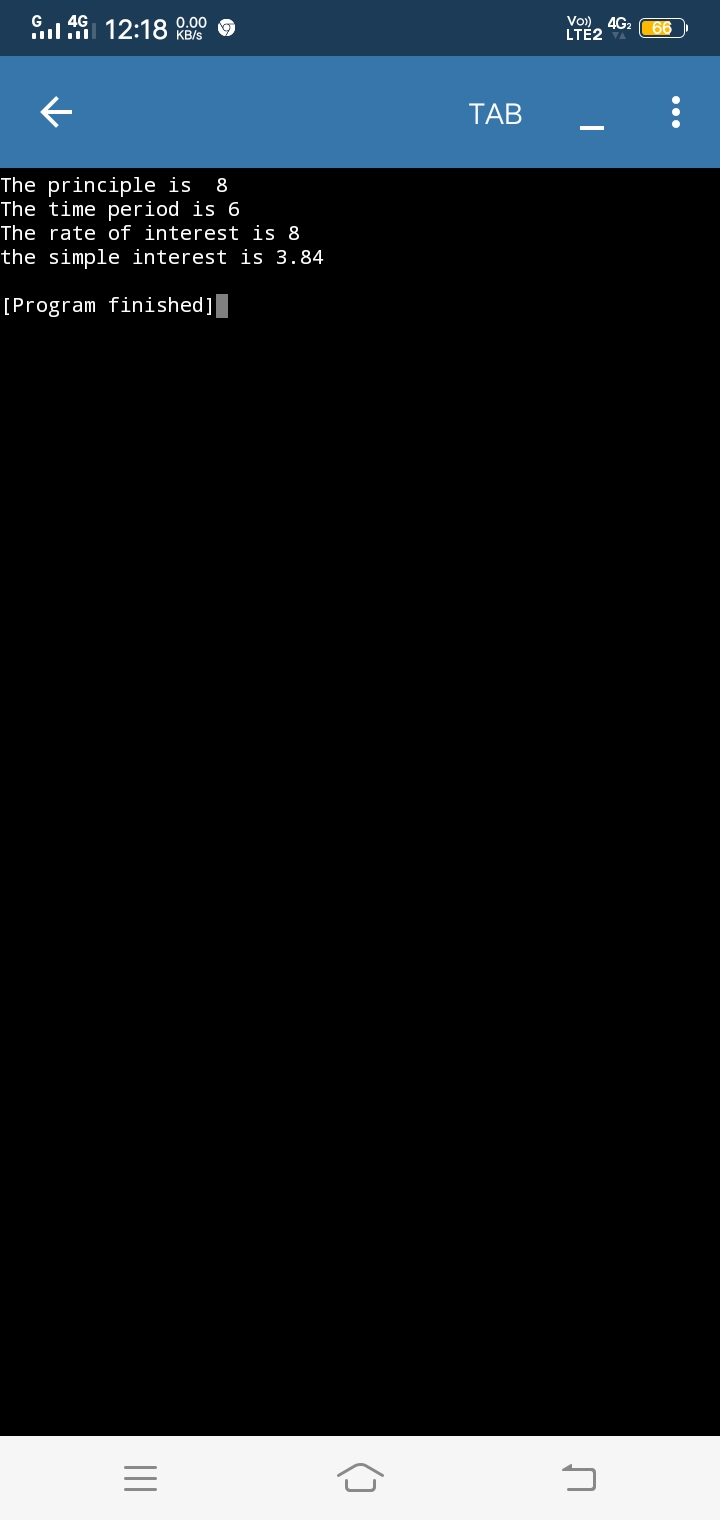
def display(self,si):

print("the simple interest is",si)

fun = cal3()

fun.callinterest(8,6,8)

fun.display(3.84)



**Program 4**

class cal4:

def setdata(self):

self.n=int(input("enter the number"))

def display(self):

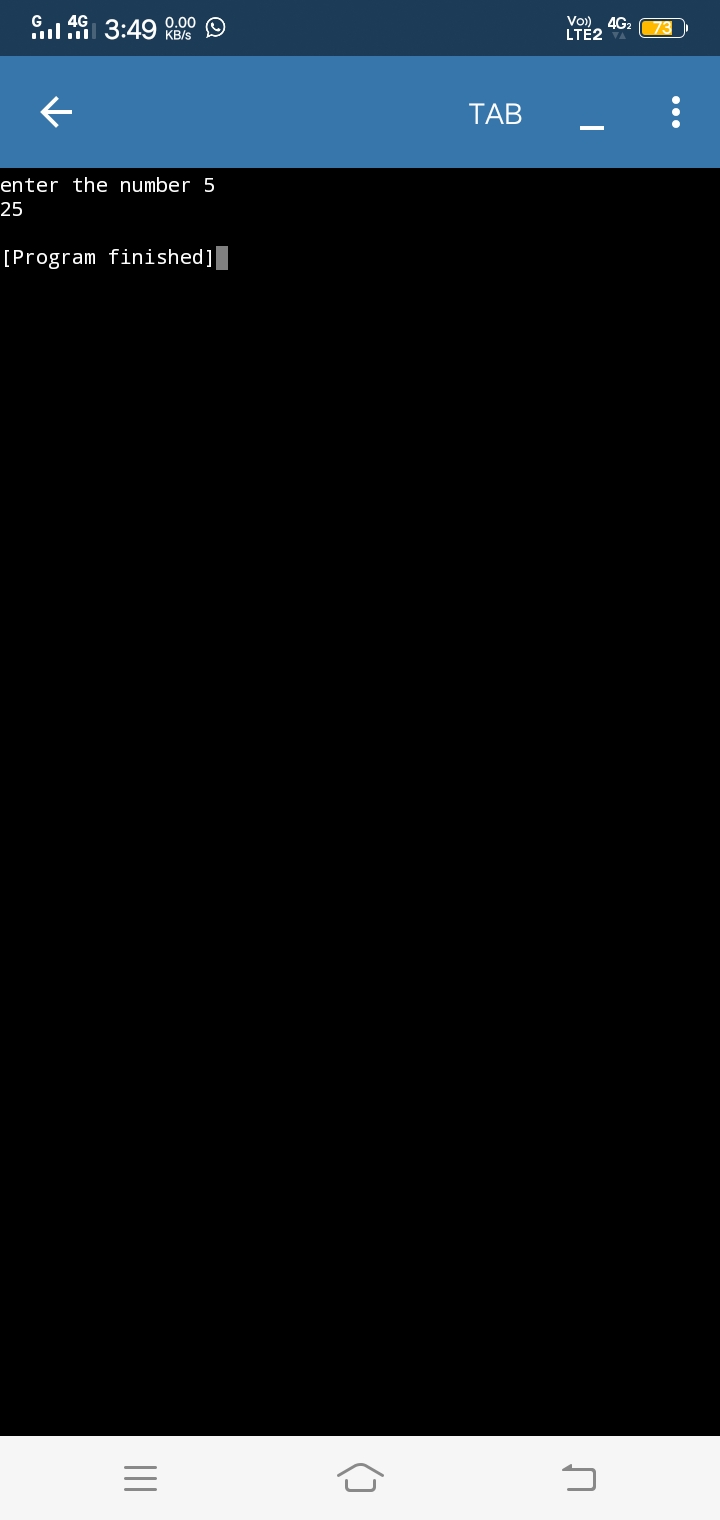
ans = self.n\*\*2

return ans

sum = cal4()

sum.setdata()

print(sum.display())



**Program 5**

class employee:

def method1(self,name):

print("Name is ",name)

class employee2:

def method2(self,designation):

print("Designation is",designation)

class employee3(employee,employee2):

def method3(self,salary):

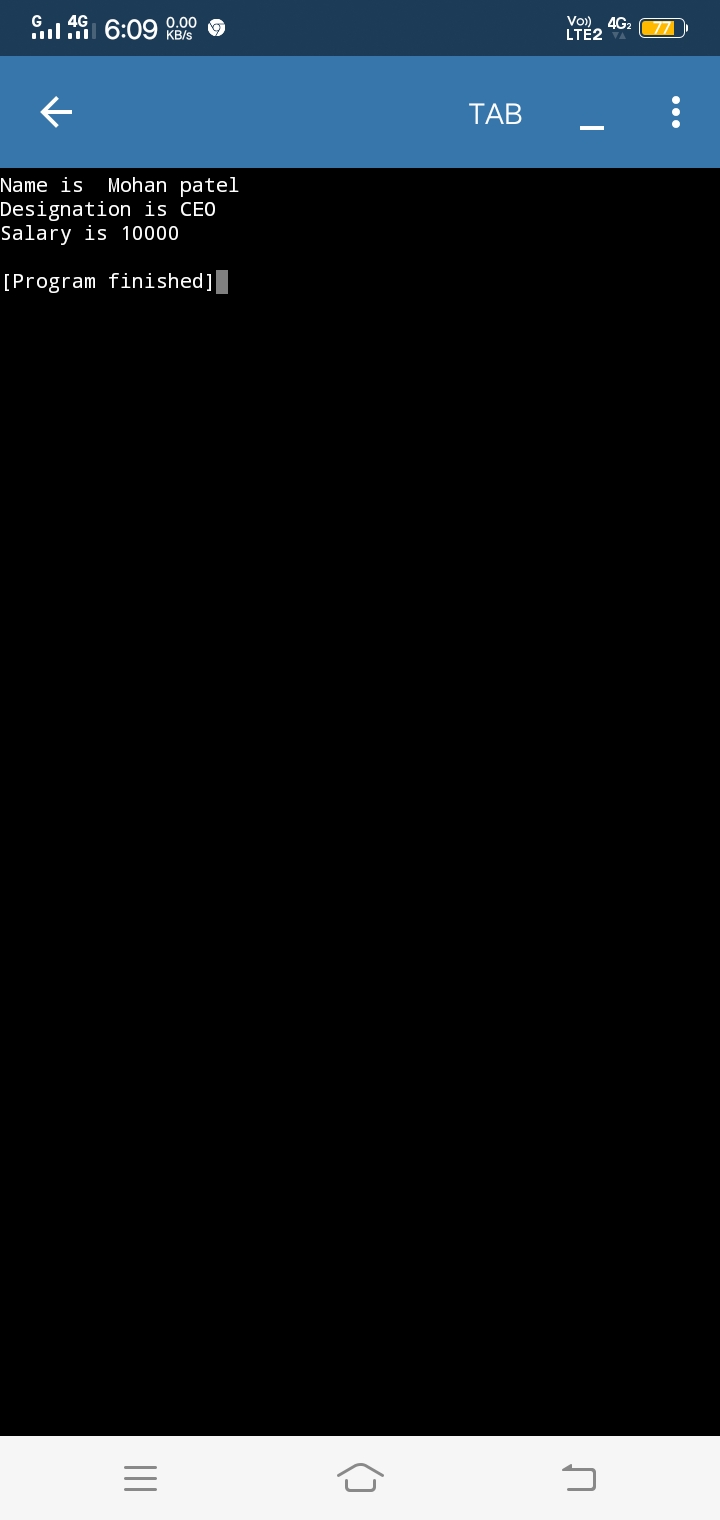
print("Salary is",salary)

e = employee3()

e.method1("Mohan patel")

e.method2("CEO")

e.method3(10000)



**Program 6**

class cal2:

def setdata(self):

self.l = int(input("enter the length of square"))

def area(self):

self.a = self.l\*\*2

def display(self):

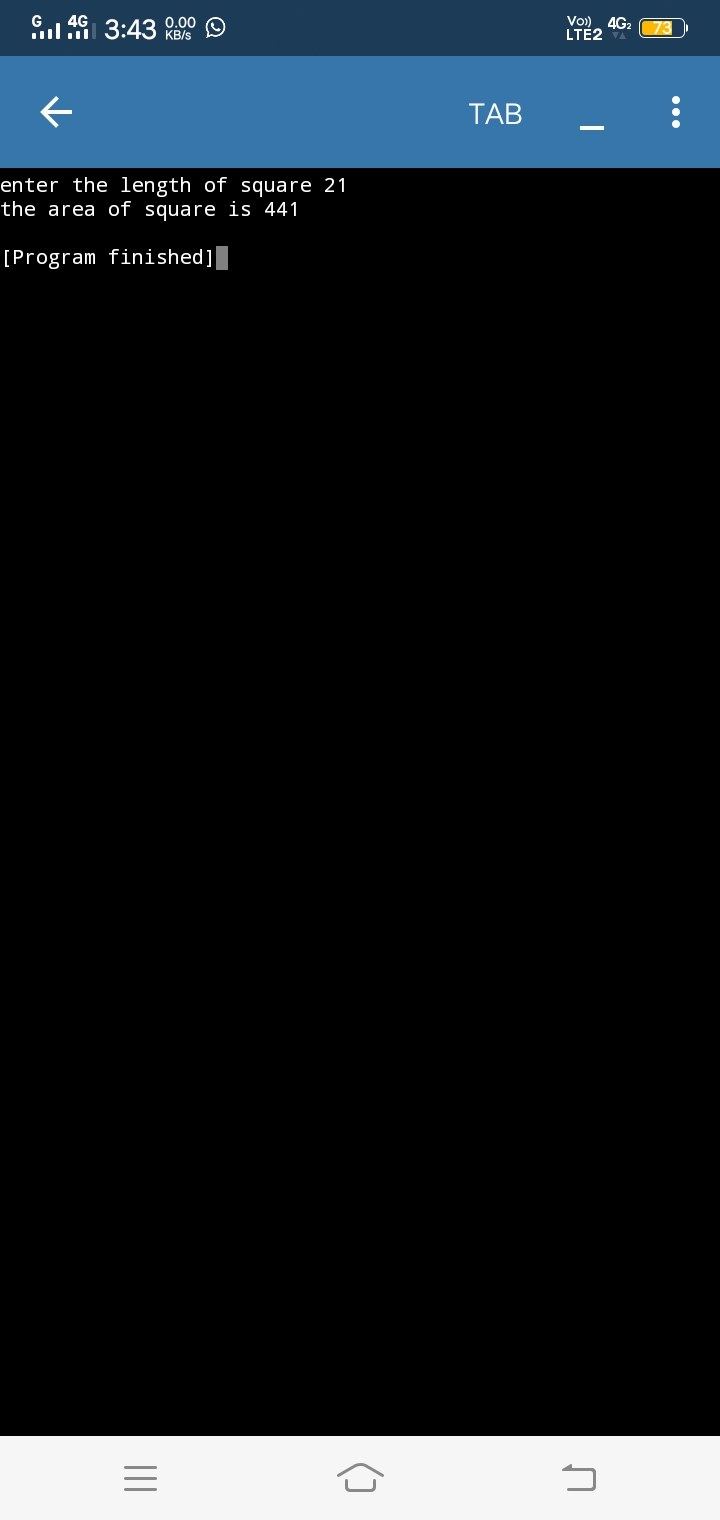
print("the area of square is",self.a)

fun = cal2()

fun.setdata()

fun.area()

fun.display()



**Program 7**

class publisher :

def name(self,title):

self.title = title

print("the title is",self.title)

class book(publisher):

def data(self,pagenumber):

self.pagenumber = pagenumber

print("the page number is",self.pagenumber)

class type(publisher):

def time(self,time):

self.time = time

print("time is",self.time)

a =book()

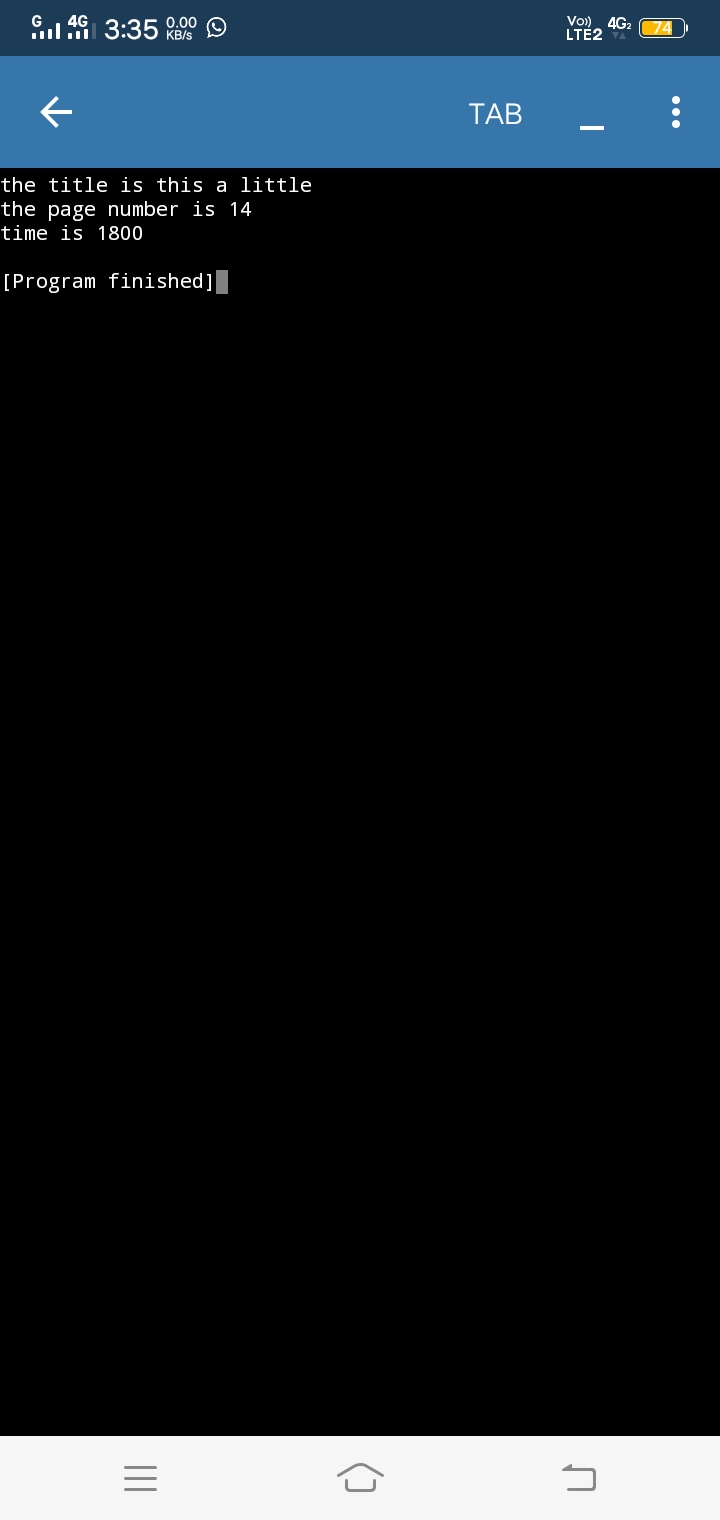
b =type()

a.name("this a little")

a.data(14)

b.time(1800)

**Program 8**



class arith:

def \_init\_(self,a,b):

self.a = a

self.b =b

def add (a,b):

sum = a+b

sub = a -b

mul = a\*b

return sum,sub,mul

def display(self,sum,sub,mul):

print("Addition",sum)

print("Subtraction",sub)

print("Multiply",mul)

x =int(input("enter number"))

y=int(input("enter number"))

ar = arith()

ar.display(15,5,50)

