**A) BIGGEST OF THREE NUMBERS**

PROGRAM:

num1=int(input("enter first number:"))

num2=int(input("enter second number:"))

num3=int(input("enter third number:"))

if(num1>num2)and(num1>num3):

print("num1 is biggest")

elif(num2>num1)and (num2>num3):

print("num 2 is biggest")

else:

print("num3 is biggest")

OUTPUT:

enter first number:76

enter second number:90

enter third number:44

num 2 is biggest

**B) CHECKING ODD OR EVEN**

PROGRAM:

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

if(num%2==0):

print(num,"is even number")

else:

print(num,"is odd number")

OUTPUT:

enter a number:6

6 is even number

**C) STUDENTS GRADE ANALYSIS**

PROGRAM:

m1=int(input("enter pspp mark:"))

m2=int(input("enter maths mark:"))

m3=int(input("enter physics mark:"))

m4=int(input("enter chemistry mark:"))

m5=int(input("enter english mark:"))

avg=(m1+m2+m3+m4+m5)/5

if(avg>=90 and avg<=100):

print("grade:O")

elif(avg>=80 and avg<90):

print("grade:A+")

elif(avg>=70 and avg<80):

print("grade:A")

elif(avg>=60 and avg<70):

print("grade:B+")

elif(avg>=50 and avg<60):

print("B")

else:

print("grade:U")

OUTPUT:

enter pspp mark:80

enter maths mark:90

enter physics mark:95

enter chemistry mark:95

enter english mark:100

grade:O

**D) VOTER ELIGIBLITY**

PROGRAM:

age=int(input("enter your age:"))

if(age>=18):

print("eligible")

else:

print("not eligible")

OUT PUT:

enter your age:25

eligible

**E) UPPER CASE OR LOWER CASE**

PROGRAM:

ch=input("enter a chatracter:")

if(ch>='A' and ch<='Z'):

print("you enter upper case letter")

elif(ch>='a' and ch<='z'):

print("you enter lower case letter")

else:

print("enter a valid input")

OUTPUT:

enter a chatracter:g

you enter lower case letter

**F) CALCULATING THE ROOT OF QUADRATIC EQUATION**

PROGRAM:

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

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

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

D=(b\*\*2)-(4\*a\*c)

print("The value of discriminant is",D)

sol1=(-b+D\*\*0.5/2\*a)

sol2=(+b-D\*\*0.5/2\*a)

print("The roots of this quadratic equation are",sol1,"and",sol2)

OUTPUT:

Enter a:12

Enter b:87

Enter c:98

The value of discriminant is 2865

The roots of this quadratic equation are 234.15416858574326 and -234.15416858574326