ODD OR EVEN

PROGRAM

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

if (num % 2) == 0:

print("{0} is Even number".format(num))

else:

print("{0} is Odd number".format(num))

OUTPUT

Enter a number: 2

2 is Even number

QUADRATIC EQUATION

PROGRAM

# Python program to find roots of quadratic equation

import math

# function for finding roots

def findRoots(a, b, c):

dis\_form = b \* b - 4 \* a \* c

sqrt\_val = math.sqrt(abs(dis\_form))

if dis\_form > 0:

print(" real and different roots ")

print((-b + sqrt\_val) / (2 \* a))

print((-b - sqrt\_val) / (2 \* a))

elif dis\_form == 0:

print(" real and same roots")

print(-b / (2 \* a))

else:

print("Complex Roots")

print(- b / (2 \* a), " + i", sqrt\_val)

print(- b / (2 \* a), " - i", sqrt\_val)

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

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

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

# If a is 0, then incorrect equation

if a == 0:

print("Input correct quadratic equation")

else:

findRoots(a, b, c)

OUTPUT

Enter a:1

Enter b:2

Enter c:2

Complex Roots

-1.0 + i 2.0

-1.0 - i 2.0

>>>

VOTING ELIGIBLITY

#voting eligiblity

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

if (age>18):

print ("eligible")

else:

print("not eligible")

OUTPUT

enter age 19

eligible

UPPER CASE ORLOWER CASE

PROGRAM

# checking for uppercase characters

string = 'UPPERCASE'

print(string.isupper())

string = 'lowercase'

print(string.isupper())

OUTPUT

True

False