# WEDNESDAY KISHORE BABU .B

# 04.01.23 22CSEA41

# 

# EXPERIMENT-3

Round 1

1. Biggest of three

Program:

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

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

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

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

print("bigger is num1")

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

print("bigger is num2")

else:

print("bigger is num3")

output:

enter the first number1

enter the second number23

enter the third number3

bigger is num2

>>>

b) odd or even

program:

num=int(input("enter the number"))

if(num%2==0):

print("even")

else:

print("odd")

output:

enter the number9

odd

>>>

C) Student grade analysis

Program:

m=int(input("enter the mark"))

if(m>90):

print("grade O")

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

print("grade a+")

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

print("grade a")

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

print("grade b+")

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

print("grade b")

else:

print("grade u")

output:

enter the mark99

grade O

>>>

Round -2

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

>>>

b) VOTING ELIGIBLITY

#voting eligiblity

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

if (age>18):

print ("eligible")

else:

print("not eligible")

OUTPUT:

enter age 19

eligible

c) UPPER CASE ORLOWER CASE

PROGRAM

# checking for uppercase characters

string = 'UPPERCASE'

print(string.isupper())

string = 'lowercase'

print(string.isupper())

OUTPUT

True

False