**Task1:**

Write a program that take a user input to catch an exception of **ZeroDivisionError**

and **Value Error**

**Task2:**

Write a program that take a user input to catch an exception of **TypeError**

**Both Things cover in one program**

# Code:

# -\*- coding: utf-8 -\*-

"""

Created on Thu Aug 6 19:27:06 2020

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"""

import math

while(True):

print("Sir what you want to calculate")

print("1) quadritic Formula")

print("2) Distance Formula")

user\_choice=input("Enter the values 1 or 2 ")

if user\_choice not in ["1","2"]:

print("Please enter a Valid Option")

continue

else:

user\_choice=int(user\_choice)

if user\_choice ==1:

print("Please Enter the values")

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

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

c=int(input("Enter the value c "))

if (a=="" or b=="" or c==""):

print("Please enter the Value ")

else:

try:

x=-b+(math.sqrt(b\*\*-4\*a\*c))

y=x/2

z=y/a

d=-b-(math.sqrt(b\*\*-4\*a\*c))

e=d/2

f=e/a

except ZeroDivisionError:

print("Division by zero is not possible")

else:

print("The answer is {} and {}".format(z,f))

elif user\_choice ==2:

print("Please Enter the Values")

x1=int(input("enter the Value X1 "))

x2=int(input("enter the value X2 "))

y1=int(input("enter the Value y1 "))

y2=int(input("enter the value y2 "))

if (x1=="" or x2=="" or y1=="" or y2==""):

print("Please enter the Value ")

else:

try:

x=math.sqrt((x2\*\*2-x1\*\*2)+(y2\*\*2-y1\*\*2))

except ValueError:

print("Please Enter the Numeric Number Not word")

else:

print("The answer is {}".format(x))

# Result:

