**Experiment No 8(Class based Exception)**

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try:

print('try block')

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

y=int(input('Enter another number: '))

z=x/y

except ZeroDivisionError:

print("except ZeroDivisionError block")

print("Division by 0 not accepted")

else:

print("else block")

print("Division = ", z)

finally:

print("finally block")

x=0

y=0

print ("Out of try, except, else and finally blocks." )

**Output:**

1.try block

Enter a number: 2

Enter another number: 0

except ZeroDivisionError block

Division by 0 not accepted

finally block

Out of try, except, else and finally blocks.

2. try block

Enter a number: 2

Enter another number: 3

else block

Division = 0.6666666666666666

finally block

Out of try, except, else and finally blocks.

2. # define Python user-defined exceptions

class Error(Exception):

"""Base class for other exceptions"""

pass

class ValueTooSmallError(Error):

"""Raised when the input value is too small"""

pass

class ValueTooLargeError(Error):

"""Raised when the input value is too large"""

pass

# you need to guess this number

number = 10

# user guesses a number until he/she gets it right

while True:

try:

i\_num = int(input("Enter a number: "))

if i\_num < number:

raise ValueTooSmallError

elif i\_num > number:

raise ValueTooLargeError

break

except ValueTooSmallError:

print("This value is too small, try again!")

print()

except ValueTooLargeError:

print("This value is too large, try again!")

print()

print("Congratulations! You guessed it correctly.")

**Output:**

Enter a number: 2

This value is too small, try again!

Enter a number: 11

This value is too large, try again!

Enter a number: 10

Congratulations! You guessed it correctly.