

26/9/25

## Task 9: Implement Exception and Exception handling in python

### a) Division Error handling

Aim :- To implement exception handling in python using try except finally block to manage division operation and handles division by zero errors.

Algorithm :-

1. prompt the user to input numerator & denominator
2. use a try block to perform the division
3. Catch ZeroDivisionError in the except & display an error message.
4. use a finally block to print a message

Program :-

try:

a = float(input("Enter numerator: "))

b = float(input("Enter denominator: "))

print("Result: ", a/b)

except ZeroDivisionError:

print("Error: Division by zero is not allowed.")

finally:

print("Execution complete")

Result :-

Thus, a python program to implement exception handling & division by zero error is executed

output :-

Enter numerator : 10

Enter denominator : 2

Result : 5.0

Execution complete



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## Task 9(b): Custom Exception for Age validation 26/9/25

Aim: To validate a person's age for voting eligibility using a user defined exception in python

### Algorithm:

1. Define a custom exception InvalidAgeError
2. prompt the user to enter their age
3. If age is less than 18, raise InvalidAgeError
4. otherwise, print "Eligible to vote"
5. Handle the exception and display the message.

### Program:

```
class InvalidAgeError(Exception):  
    pass
```

```
try:
```

```
    age = int(input("Enter your age: "))
```

```
    if age < 18:
```

```
        raise InvalidAgeError("Age must be atleast 18  
                                to vote.")
```

```
    print("Eligible to vote.")
```

```
except InvalidAgeError as e:
```

```
    print("Error:", e)
```

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Result: Thus, python program to validate a person's age for voting eligibility using user defined exception is executed. 26/9/25



## Sample output

case 1: Valid Age

Enter your age : 25

Eligible to vote

case 2: Invalid Age

Enter your age : 15

Error : Age must be at least 18 to vote