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## Python Programming - 2101CS405

### Lab - 9

**Name : Gohel Krish**

**Roll NO : 108**

**Enrollment No:22010101060**

## Exception Handling

### A

**01) WAP to handle divide by zero exception.**

```
In [4]: try:
        a= int(input("a:"))
        b= 0
        c = a/b
    except ZeroDivisionError:
        print("b doesn't equal 0")
```

```
a:5
b doesn't equal 0
```

## 02) Write a Python program that inputs a number and generates an error message if it is not a number.

```
In [6]: try:
        a = int(input("a:"))
    except ValueError:
        print("a doesn't contain alphabetic values")
```

a:5a  
a doesn't contain alphabetic values

## 03) WAP to handle file not found Exception

```
In [8]: try:
        f = open("krish.text", 'r')
    except FileNotFoundError:
        print('This File is Not Found at here')
```

This File is Not Found at here

## 04) WAP to handle type Exception.

```
In [9]: try:
        a=int(input("a:"))
        b = '5'+a
    except TypeError:
        print('This is type error')
```

a:5  
This is type error

## 05) WAP to demonstrate ValueError and IndexError with example.



```
In [21]: try:
        c = int(input('a:'))
        a = []
        b = a[1]
    except ValueError:
        try:
            a = []
            b = a[1]
        except IndexError:
            print("Given error is value & index error")
```

a:5a  
Given error is value & index error

### ### 06) WAP to demonstrate else and finally block.

```
In [14]: try:
          a= int(input())
        except ValueError:
            print("value error occured.")
        else:
            print("value is correct")
        finally:
            print("finally block executed")
```

```
5
value is correct
finally block executed
```

**07) Create a short program that prompts the user for a list of grades separated by commas. Split the string into individual grades and use a list comprehension to convert each string to an integer. You should use a try statement to inform the user when the values they entered cannot be converted.**

```
In [26]: try:
          s = input("string : ")
          a = s.split(',')
          c = [int(i) for i in a]
        except ValueError:
            print('value canat convert')
```

```
string : 5,6,8, ,6
value canat convert
```

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## B

**01) WAP to Raising User Generated Exception.**

```
In [27]: class NumError(Exception):
          pass
        try:
            a = int(input("a:"))
            if a<0:
                raise NumError
        except NumError:
            print("enter posutive Number")
```

```
a:-12
enter posutive Number
```

## 02) WAP to raise your custom Exception.

```
In [31]: class EvenError(Exception):  
        pass  
        try:  
            a = int(input("Enter Odd Number:"))  
            if a%2 == 0:  
                raise EvenError  
        except EvenError:  
            print("Even Number Entered.")
```

Enter Odd Number:4  
Even Number Entered.