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Python Programming - 2101CS405

Lab - 9

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Exception Handling

A

01) WAP to handle divide by zero exception.

```
In [2]: num1 = int(input("Enter 1st Number:"))
num2 = int(input("Enter 2nd Number:"))

try:
    ans = num1 / num2
    print(f"Answer:{ans}")
except ZeroDivisionError:
    print("Error: Division by zero")
```

Enter 1st Number:10 Enter 2nd Number:2

Answer:5.0

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

```
In [6]: num = input("Enter Number:")

try:
    ans = int(num)
    print(ans)
except:
    print("Enter Valid Number")
```

Enter Number:2a Enter Valid Number

03) WAP to handle file not found Exception

```
In [12]:
    f = open("demo1.py","r")
        data = f.read()
        print(data)
    except FileNotFoundError:
        print("Couldn't find file")
```

04) WAP to handle type Exception.

```
In [22]: num = str(input("Enter Value:"))
    try:
        ans = num/10
    except TypeError:
        print("Invalid Datatype or Operattion")
```

Enter Value:abc
Invalid Datatype or Operattion

05) WAP to demonstrate valueError and indexError with example.

06) WAP to domonstrate else and finally block.

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 [37]: grade = input("Enter grade With comma Seprated:")
    list = grade.split(",")
    try:
        ans = [int(i) for i in list]
        print(ans)
    except ValueError:
        print("Value Can't Converted")

Enter grade With comma Seprated:10,20,30
    [10, 20, 30]
```

Type *Markdown* and LaTeX: α^2

Index Error

finally Block

B

01) WAP to Raising User Generated Exception.

```
In [50]: num = input("Enter Value:")

try:
    if num.isdigit():
        print(num)
    else:
        raise TypeError
except TypeError:
    print("Invalid Datatype or Operattion")
```

Enter Value:ab
Invalid Datatype or Operattion

02) WAP to raise your custom Exception.

```
In []: class TypeConverteError(Exception):
    def __init__(self,arg):
        self.arg=arg

num = input("Enter Value:")
try:
    if num.isdigit():
        print(num)
    else:
        raise TypeConverteError("Type Convert Error")
except TypeConverteError as e:
    print(e.arg)
```