

Python Programming

Lab Assignment – 10

Exception Handling

Assignment Questions :

1) Write a Python program to handle ZeroDivisionError exception when dividing a number by zero.

2) Write a Python program that prompts the user inputs an integer and raises a ValueError exception if the inputs is not a valid integer.

3) Write a Python program that opens a file and handles a FileNotFoundError exception if the file does not exist.

4) Write a Python program that prompts the user to input two numbers and raises a TypeError exception if the inputs are not numerical.

1) Write a Python program to handle ZeroDivisionError exception when dividing a number by zero.

Sol :

```
try:
    num = float(input("Enter the numerator"))
    deno = float(input("Enter the denominator"))
    result = num/deno
    print(f" The Result is = {result}")
except ZeroDivisionError:
    print("Error : Division by Zero is not allowed")
```

2) Write a Python program that prompts the user inputs an integer and raises a ValueError exception if the inputs is not a valid integer.

Sol :

```
try:
    user_input = input("Enter an Integer = ")
    user_interger = int(user_input)
    print(f"You Entered = {user_interger}")
except ValueError:
    print("Error : Input is not a valid Integer")
```

3) Write a Python program that opens a file and handles a `FileNotFoundError` exception if the file does not exist.

Sol :

```
try:
    open("E:\Data_Analytics\Files\\Demo.txt","r")
    print("File opened successfully")
except FileNotFoundError:
    print("Error : File not found")
```

4) Write a Python program that prompts the user to input two numbers and raises a `TypeError` exception if the inputs are not numerical.

Sol :

```
try:
    num1 = float(input("Enter the first Number = "))
    num2 = float(input("Enter the second number = "))
    print(f"The number are {num1} and {num2}.")
except ValueError:
    raise TypeError("Inputs must be numerical")
```