AF0364430

PYTHON PROGRAMMING

LAB-11 ANSWERS

hareesh h m

[Year]

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

Code:

#initializing the values for a and b.

a = 10

b = 0

if b != 0: #checking the condition if given b is equal to 0 or not.

    result = a / b #performing division operation(a/b).

    print("Result of division:", result)#prints if a is devisable with b.

else:

    print("Error: Division by zero is not accepted!")# prints if a is not devisable with b.

Output:

Division by zero is not accepted!

1. Write a Python program that prompts the user to input an integer and raises a ValueError exception if the input is not a valid integer.

Code:

try:

    Number = input("Enter an integer: ") #taking input from user.

    Integer= int(Number)# checking if the given number is integer or not.

    print("You entered:", Integer) #print if the given number is integer.

except ValueError:

    print("Error: Invalid input. Please enter a valid integer.") #print if the given number is not a integer.

Outputs:

Enter an integer: 6

You entered: 6

Enter an integer: 2.3

Error: Invalid input. Please enter a valid integer.

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

Code:

try:

    with open("Hareesha\_file.txt", "r") as file: #takens the input file location(address) from the user.

        contents = file.read() #it will reads the given file by using read operation.

        print(contents) # if the file is present then it prints the contents.

except FileNotFoundError:

    print(" The specified file does not exist.") # if the file is not present then it prints the The specified file does not exist massege .

Output:

The specified 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 numeric.

Code:

try:

    Number1 = int(input("Enter the first number: ")) #taking the input from user as Number1.

    Number2 = int(input("Enter the second number: ")) #taking the input from user as Number2.

    result = Number1 + Number2 # performing the addition operation.

    print("Sum of the two numbers:", result) #prints the result if the both given numbers are numeric numbers.

except ValueError:

    print("Inputs must be numeric.") #prints the result if the both given numbers are not a numeric numbers.

Output:

Enter the first number: 4

Enter the second number: 6

Sum of the two numbers: 10

Enter the first number: H

Inputs must be numeric.