PYTHON PROGRAMMING

LAB-11 ANSWERS

HAREESH H M

AF0364430

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

Code:

```python
#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!

2. 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:

```python
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.

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

Code:

```python
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:

```python
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.