Python Programming

Lab :- 11(Exception)

Student Id:- AF0417098

Student Name:- Ankush

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

Program :-

```
labassignment11.py > ...

def divide_numbers(a, b):

try:

result = a / b

except ZeroDivisionError:

return "Error: Cannot divide by zero."

else:

return result

# Example usage:

num1 = float(input("Enter the numerator: "))

num2 = float(input("Enter the denominator: "))

print(divide_numbers(num1, num2))
```

Output:-

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL TEST RESULTS PORTS

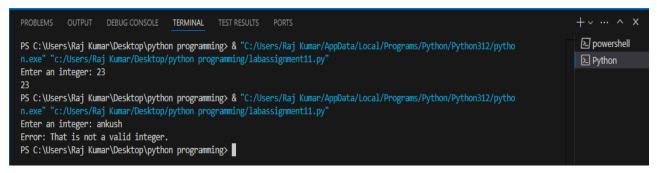
+ \cdot \cdot \times \text{Raj Kumar\Desktop\python programming\} & "C:/Users/Raj Kumar/AppData/Local/Programs/Python/Python312/pytho n.exe" "c:/Users/Raj Kumar\Desktop\python programming\] & "C:/Users/Raj Kumar\Desktop\python programming\] & "C:/Users/Raj Kumar\Desktop\python programming\] & "C:/Users/Raj Kumar\Desktop\python programming\] & "C:/Users/Raj Kumar\Desktop\python\] Python Programming\] & "C:/Users/Raj Kumar\Desktop\python\] Python Python312/pytho n.exe" "c:/Users/Raj Kumar\Desktop\python programming\] Enter the denominator: 0

Error: Cannot divide by zero.
PS C:\Users\Raj Kumar\Desktop\python programming\]
```

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.

Program:-

Output:-



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

Program:-

Output:-

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL TEST RESULTS PORTS

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PS C:\Users\Raj Kumar\Desktop\python programming> & "C:\Users\Raj Kumar\AppData/Local/Programs/Python/Python312/pytho
n.exe" "c:\Users\Raj Kumar\Desktop\python programming/labassignment11.py"

Enter the filename: story.txt
This is a Sample text file.
It contains multiple lines.
PS C:\Users\Raj Kumar\Desktop\python programming> & "C:\Users\Raj Kumar\AppData/Local/Programs/Python/Python312/pytho
n.exe" "c:\Users\Raj Kumar\Desktop\python programming/labassignment11.py"

Enter the filename: story1.txt

Error: File not found.
PS C:\Users\Raj Kumar\Desktop\python programming>
```

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

Program:-

Output:-

