**Homework Assignment: Mastering Error Handling in Python with Try-Except Blocks**

Objective: This assignment focuses on teaching students how to handle errors and exceptions using try-except blocks in Python. Students will explore various scenarios where errors may occur and learn how to gracefully handle them.

**Problem 1: Basic Error Handling**

1. Write a Python script that prompts the user to enter two numbers. Use a try-except block to handle the case where the user enters a non-numeric value.

2. Extend your script to handle the case where the user attempts to divide by zero. Print a custom error message in this situation.

**Problem 2: File Handling Errors**

3. Create a Python script that attempts to open a file named `example.txt` for reading. Use a try-except block to handle the case where the file does not exist.

4. Extend your script to read the contents of the file if it exists. Handle the case where there is an error in reading the file.

**Problem 3: Multiple Exceptions**

5. Write a Python script that takes two inputs from the user: a numerator and a denominator. Use a try-except block to handle the following cases:

- If either input is not numeric.

- If the denominator is zero.

- If any other unexpected error occurs.

6. Print a meaningful message for each type of exception.

**Problem 4: Custom Exceptions**

7. Define a custom exception class named `NegativeValueError`. Modify your script from Problem 3 to raise this custom exception if either the numerator or denominator is a negative number.

8. Handle this custom exception in your try-except block and print a specific error message.

Additional Tips:

- Utilize online resources, Python documentation, and course materials to reinforce your understanding.

- Collaborate with classmates to discuss concepts and problem-solving.

- Seek assistance from your instructor or classmates if you encounter difficulties.