Python Programming

Practice – 7

Overview

This practice reinforces us to understand the need for exceptional handling in Python.

- *Understanding what are Exceptions.*
- *Exception Handling using **try ... except**.*
- *Handling multiple exceptions.*
- *Handling indirect exceptions.*
- *Raising an exception.*
- *Defining Clean-up action.*

We shall put these elements in creating Python programs which handle exceptions in this practice session.

Hands On

1. Execute the programs (Q1, Q2, or Q3 of Practice – 2). Enter some text when a number is asked. Record your observation.

2. Use appropriate exception handling method such that the user enters only the required data.

3. Execute the program (Q4 of Practice-6) and record your observation for the following:

   [a] **The specified file does not exist**
   [b] **You have no read permission**
   [c] **It is not an ordinary text file**

   Use multiple exception handling mechanism and overcome the above expected errors.

4. Write a program to illustrate the optional **else** clause of the **try…expect** statement

5. Write a program to illustrate Indirect Exception.

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6. Write a program which accepts the day, month and year and stores them as the first three elements of a list.

   [a] Raise an “Invalid Month” exception when the month is not between 1 to 12
   [b] Raise an “Invalid Day” exception when the day is not between 1 to 30.
   [c] Take care of leap year.

7. Write a program to illustrate the **finally** clause of the **try…expect** statement.

8. Modify all other programs which you have created in your previous practice sessions to handle expected exceptions.