**🧩 Practice Questions on Exception Handling**

**Basic Error Handling**

1. **Simple Try-Except:**  
   Write a program that takes two numbers as input and divides them. Handle the case when the user enters zero as the denominator.
2. **ValueError Handling:**  
   Ask the user for a number and convert it to an integer. Handle the situation if the user enters a non-numeric value.
3. **IndexError Handling:**  
   Create a list of five numbers and try to access an index entered by the user. Handle the case when the index is out of range.
4. **FileNotFoundError:**  
   Write a program to open a text file (data.txt) and print its contents. Handle the exception if the file doesn’t exist.
5. **TypeError Example:**  
   Try adding a string and an integer. Handle the TypeError and display a user-friendly message.

**Multiple Exceptions**

1. **Handle Multiple Exceptions Separately:**  
   Create a program that divides two numbers. Handle both ZeroDivisionError and ValueError separately with different messages.
2. **Multiple Exceptions in One Block:**  
   Use a single except block with a tuple to handle both ValueError and TypeError.
3. **Nested Try-Except:**  
   Write a program that tries to open a file and read its contents. If the file exists but contains non-integer data, handle the ValueError when converting to int.
4. **Finally Block:**  
   Demonstrate the use of the finally block by printing “Program Completed” no matter what happens in the try block.
5. **Else with Try-Except:**  
   Write a program where if no exception occurs, the else block prints “No errors occurred”.

**User-Defined (Custom) Exceptions**

1. **Custom Exception for Age Validation:**  
   Create a custom exception class InvalidAgeError. Raise it if the user enters an age less than 18.
2. **Bank Withdrawal Exception:**  
   Define a custom exception InsufficientFundsError that triggers when a user tries to withdraw more money than the balance.
3. **Password Strength Exception:**  
   Create a class WeakPasswordError and raise it if the entered password length is less than 6 characters.
4. **Temperature Exception:**  
   Make a program that raises a custom exception TooColdError if the entered temperature is below 0°C, and handle it gracefully.
5. **Student Marks Exception:**  
   Write a program where the user enters marks. Raise a MarksOutOfRangeError if marks are not between 0 and 100.