Lab Assignment 5

Date: Date of Submission: 27/11/2023

1. Create a program to ask the user for a real number and display its square root. Errors must be trapped using "try..catch".

2. Write a main class and declare four objects of Calculator class. Perform addition (obj1), subtraction (obj2), multiply (obj3) and division (obj4) operations for these objects. If any non integer values are provided as input; then you should throw an exception (NumberFormatException) and display a message that informs the user of the wrong input.

3. Define custom exceptions InvalidAmountException, InsufficientFundsException to handle wrong operations done by customers in deposit, and withdrawal operations.

   - Throw InvalidAmountException if the user enters zero or –ve amount in deposit and withdraw operations.

   - Throw InsufficientFundsException if the user enters the amount greater than the balance in case of withdrawing operations.

4. Write a program to accept product details like ProductName, ProductID, weight and Price. Design Exception InvalidWeight if the weight entered is less than 1000 Kg.