**Assignment-07**

**Topic: Exception Handling in Java**

**Date: 26.12.2023**

1. Write an exception handling java program to read two numbers n1, n2 and calculate and print the result of n1/n2. If n2 is Zero (0) then it will be handled by exception handler and again ask the value of n2. In the exception handler the program should display appropriate message to the user.
2. Write a java program to read two numbers x and y and calculate x/(x−y). The program should check the value of x−y. Before dividing with x, it should throw an exception if x−y is zero. In the exception handler the program should display appropriate message to the user.
3. Write an exception handling java program to print the index position of an existing integer array. The index value will be entered by user. It will be handled by exception handler if index position is greater then the size of array. In the exception handler the program should display appropriate message to the user.
4. Write a program to illustrate the use of multiple catch blocks associated with a single try block.
5. Write a class called **Account** with the following properties and methods:

Properties: String **name**, int **acc\_no**, double **balance**

Methods: void **deposit** (double amt)

void **withdraw** (double amt)

Assume that an account needs to have a minimum balance of 500. If an attempt is made to withdraw, which results in balance going below 500, throw a user defined exception called **MinimumBalanceException**. Use throw and throws wherever necessary.

1. Write a class called **Account** with the following properties and methods:

Properties: String **name**, int **acc\_no**, double **balance**

Methods: void **deposit** (double amt)

void **withdraw** (double amt),

void **transfer** (Account acc1, Account acc2, double amt)

Assume that an account needs to have a minimum balance of 500. If an attempt is made to withdraw or transfer, which results in balance going below 500, throw a user defined exception called **MinimumBalanceException**. Use throw and throws wherever necessary.

1. Write a program that prompts the user to enter a length in feet and inches and outputs the equivalent length in centimetres. If the user enters a negative number or a non-digit number, throw and handle an appropriate exception and prompt the user to enter another set of numbers.