**Java**

Assignment - Day 5

Concept: Exception Handling

Objective: At the end of the assignment, participants will be able to:

* Handle the pre-defined exceptions
* Create custom exceptions

Problems:

1. Write a program in Java to initialize an array of 10 integers. Handle ArrayIndexOutOfBoundsException, so that any such problem doesn't cause abnormal termination of program.
2. Write a java program with a method that throws an exception but not handled inside. Call the method from main. Let the main method handle the exception appropriately.
3. Create a class **Customer** having following members:

private String custNo

private String custName

private String category

Parameterized constructor to initialize all instance variables

Getter methods for all instance variables

Perform following validations in the constructor

* custNo must start with ‘C’ or ‘c’
* custName must be atleast of 4 characters
* category must be either ‘Platinum’, ‘Gold’ or ‘Silver ‘

When any of these validations fail, then raise a user defined exception **InvalidInputException**

Create a class **TestCustomer** having main method. Ask user to enter customer details. Create an object of Customer and perform validations. Print details of customer.