Velammal College of Engineering and Technology, Madurai
Department of Computer Science and Engineering
Object oriented programming lab

Exercise 9

Exception Handling

Team 1

1. Write a java program for exception handling:
   a. To create a user defined exception whenever user input the word "hello".
   b. To add two integers and raise exception when any other character except number (0 – 9) is given as input.
2. Write a Java program for handling the following exceptions
   (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
   (iii) NumberFormatException   (iv) StringIndexOutOfBound Exception

Team 2

1. Create a class Doctor with attributes id, name, age and department. Initialize values through parameterized constructor. If age of Doctor is not in between 25 and 65 then generate user-defined exception "AgeNotWithinRangeException". If name contains numbers or special symbols raise exception "NameNotValidException". Define the two exception classes.
2. Write a Java program for handling the following exceptions
   (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
   (iii) NumberFormatException (iv) StringIndexOutOfBound Exception

Team 3

1. A program accepts two integers as command line arguments. It displays all prime numbers between these two. Validate the input for the following criteria: Both should be positive integers. The second should be larger than the first. Create user defined exceptions for both.
2. Write a Java program for handling the following exceptions
   (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
   (iii) NumberFormatException (iv) StringIndexOutOfBound Exception

Team 4

1. Create a Manager class with data members name, age, qualification and experience. If the qualification is not M.B.A and experience is not more than 10 years throw an user defined exception RoleNotApplicableException.
2. Write a Java program for handling the following exceptions
   (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
   (iii) NumberFormatException (iv) StringIndexOutOfBound Exception

Team 5

1. Write a Java application for Banking transaction system that helps the users to do their credit transactions. Rises user defined exception while encountering errors during credit transaction and also solves the exception by using appropriate handling techniques.
2. Write a Java program for handling the following exceptions
    (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
    (iii) NumberFormatException (iv) StringIndexOutOfBound Exception

Team 6

1. Write a Java application for Banking transaction system that helps the users to do their debit transactions. Rises user defined exception while encountering errors during debit transaction and also solves the exception by using appropriate handling techniques.
2. Write a Java program for handling the following exceptions
    (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
    (iii) NumberFormatException (iv) StringIndexOutOfBound Exception

Team 7

1. Write a java application for Person class with data members name, age and email Id. If the name of person consists of numbers and characters other than alphabets throw an user defined exception NameIncorrectFormatException
2. Write a Java program for handling the following exceptions
    (i) Arithmetic Exception   (ii) ArrayIndexOutOfBounds Exception
    (iii) NumberFormatException (iv) StringIndexOutOfBound Exception