# SunBeam Institute of Information Technology Java Assignment 7

## **Based on Exception Handling**

Q1) Define a new exception, called ExceptionLineTooLong, that prints out the error message "The strings is too long". Write a program that reads a String from user and calculates its length. and throws an exception of type ExceptionLineTooLong in the case where a string of length is more than 80 characters.

Q2) Build a new Circle class with the following basic features:

#### • Attributes:

- Center point Build instance variables for the circle's center point (myX and myY represented as double values).
- o Diameter Build an instance variable for the circle's diameter (myDiameter also represented as a double value).

#### Behaviors

- Default constructor Build a default constructor that initializes the circle's center point to (0, 0) and its diameter to 100.
- Accessor methods Build accessor methods for the two center coordinates and the diameter.

### Invariant

 The circle's diameter should always be non-negative. maintain the integrity of each circle object by ensuring that the class invariant (that the diameter should be nonnegative) is true at all times.

If the diameter is negative then throw user defined exception.