# Sunbeam Institute of Information Technology Pune, Karad

# Java Assignment 7

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).
- Diameter Build an instance variable for the circle's diameter (myDiameter also represented as a double value).

### Behaviors

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

## Invariant

o 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 non-negative) is true at all times.

If the diameter is negative then throw user defined exception.