## **Assignment 8**

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.

(Hint- Use String class length() method)

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

## • Attributes:

- o Center point Build instance variables for the circle's center point (use Point2D class object).
- o 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 Provide a setter method that can set value to diameter.
- o The circle's diameter should always be non-negative. If the diameter is negative then throw user defined exception.