King Saud University College of Computer & Information Science CSC111 – Assignment 7 All Sections

Instructions

1- You must submit your solution using Web-CAT grading system. Web-CAT can be accessed from eclipse using the following IP address (single line):

http://10.131.240.28:8080/Web-CAT/WebObjects/Web-CAT.woa/wa/assignments/eclipse

- 2- Due date: Sunday Nov 1st at 11:59pm
- 3- You can discuss answers with your colleagues but <u>cheating is</u> prohibited and there will be extreme consequences.

Question 1

Design a class named **MyRectangle** to represent a rectangle. The class contains:

- Two double data fields named width and height that specify the width and height of the rectangle.
- A double data field named area that specifies the area of the rectangle.
- A double data field named perimeter that specifies the perimeter of the rectangle.

 A method printRectangle() that prints a rectangle made of stars based on the width and height after casting them to int type. The method does not accept parameters or return a result.

Draw the UML diagram for the class and then implement the class. Write a test class **TestMyRectangle** with method **main** that does the following:

- Creates two **MyRectangle** objects.
- Assign width 4 and height 8 to the first object and the other with width 3.5 and height 35.9.
- Display the width, height, area, and perimeter of the first then the second rectangle.
- Displays the first rectangle using stars *.

Sample Run