Taibah University
College of Computer Science and Engineering (Yanbu)
Spring(2022)
CS112-Programming II
Coursework03

Instructions

1. You must submit your solution using Blackboard. **Email submissions will not be accepted**. Blackboard can be accessed from the Universitys website using the following address :
   https://lms.taibahu.edu.sa

2. You can discuss answers with your colleagues, but **cheating is prohibited and there will be extreme consequences**.

Problem1
Suppose we want to design a generic method to find the larger of two objects of the same type, such as circles. Java provides the **Comparable** interface for this purpose.

In this coursework, you are asked to do the following tasks:

(a) Define a class named **ComparableCircle** that extends **Circle** and implements **Comparable**.

(b) Draw the UML diagram and implement **compareTo** method to compare the circles on the basis of area.

(c) Write a test class to find the larger of two instances of ComparableCircle objects.

Good luck   Sameer M. Alrehaili