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**KING SAUD UNIVERSITY**

**College of Applied and Community Services**

**GC 201**

**First Semester 1436-1437**

Dead line on Wednesday 25/11/2015, only printed with CD, and emailed home works will be accepted.

**HW#5**

**Q1:**

Write a class called **Distance**. The Distance class will have three data members: kilometers (int), meters (int), and centimeters (Double). Remember that there are 100 centimeters in one meter and 1000 meters in one kilometer.

Create a class named **TestDistance** to test your **Distance** class. Your program should:

* Create two Distance objects dist1 and dist2, prompt the user to enter values for the dist1 and dist2 objects in centimeters. Then, calculate and display the corresponding distance in kilometers and meters.
* Calculate the sum of the dist1 and dist2 objects, assign the result to a new object named dist3, and display the attributes of the new object.

**Q2:**

Write a class called **Doctor**. The Doctor class will have four data members: name (String), workingHours (int), yearsOfService (int), and salary (Double).

Create a class named **TestDoctor** to test your Doctor class. Your program should:

* Create three Doctor objects, enter their names, working hours, years of service, and salaries, and then display the data for each doctor.
* Calculate and display the average working hours of the three doctors.

**Note:**

* + denotes to public member and – denotes to private member.
* Display the information on windows application **form.**

|  |
| --- |
| Doctor |
| - name: String  + workingHours: Integer  - yearsOfService: Integer  - salary: Double |

|  |
| --- |
| TestDoctor |
| + main() |