

**KING SAUD UNIVERSITY**

**College of Applied Studies and Community Services**

**Applied Computing**

**GC 201**

**Second Semester 1435-1436**

**sheet #7**

**Q1:**

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.**

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

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

**Q2:**

Create a class named**TestPhone** with a main method that will calculate the phone bill for customers. The program should use a class called **PhoneBill** containing the following attributes: customerAccountNumber (int) and minutesUsed (Double).

Phone call charges are 25 pence per minute. The program should read the data from the keyboard and display the following information for the customer on the screen in one line.

**customer account number**

**phone bill charge**

**Q3:**

Writ a class called **Distance**. The Distance class will have three data members: kilometers (int), meters (int), and centimeters (Double).

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.