CS-103

Autumn 2013

Tut - 2

Q1. Write a test driver class **Rectangle** with access modifier as public without any class variables/instance variables (a test driver class contains a main method, objects constructed and used in the class)

Within the class **Rectangle,** declare and define the following methods (non-static) with appropriate access modifiers and return types so that objects instantiated for the class Rectangle are able to access them:

1. area() for reading input from the keyboard for dimensions of the rectangle and thus calculating the area against an instantiated object of the class Rectangle
2. display() the area of the against an instantiated object of the class Rectangle

Note: Instantiate or create at least two objects in the test driver class to be initialized by using automatic default constructor.

Q2. Modify the program in Q1. For the following

1. class Rectangle having class variables/instance variables for length and width of the rectangle
2. declaring and defining inputDim() method to input dimensions from the keyborad

(iii) area() method to calculate the area of rectangle with parameters as class variables

1. display() the area of Rectangle class objects created

Note: use for loop to create multiple objects of the class

Q3. Modify the program in Q2. For the following

1. class Rectangle having class variables/instance variables for length and width of the rectangle
2. declaring and defining instead of inputDim

(a) default constructor

(b) parameterized constructor

(iii) area() method to calculate the area of rectangle

1. display() the area of Rectangle class objects created

Note: use for loop to create multiple objects of the class

Q4. WAP using two classes (a) application class **MaxVal** for finding the maximum of three give integers (b) test driver class **MainClass** i.e class having main method

Create the above classes

(i) in the same program i.e. both classes in same program

(ii) The two classes separately, however in the same folder