One Hour Lab Exam

1. Create a class named Course. That will have some member variables like :courseName, courseID, typeOfCourse. Course class will have the proper set and get methods. Also implement a constructor in that class.

   Now another class will hold the main() method. Sample output by the main() is as follows :

   Sample output :
   Economics with credit 3.0 is a THEORY course
   PHYSICS1 Lab with credit 1.0 is a LAB course

   Bonus Requirement(s) :

   R1. Write member/class methods or variables in Course class to track the number of objects created for Course class type. Output the number of objects of Course class in the main method.

2. **Follow the class diagram :**

   Rectangle Class

   -x:int
   -y:int
   +setX(int):void
   +setY(int):void
   +getY():int
   +getX():int
   +showArea():void
   +getArea():double

   MAIN Method will do:

   1. Create an array for storing Retangle type objects references.
   2. Create multiple Rectangle objects and store each into the array.
   3. Now calculate average area of all the rectangles from the array.
   4. Find all the areas of the Rectangles those have the y greater than 100