Assignment 1 - Objects, Classes and Inheritance

Work honestly and Don't Copy other's intellectual efforts. Plagiarized and late submitted solution shall not be considered.

Every Student should attempt the assignment individually. The Assignment carries solid 5 MARKS.

Submit the source code file(s) With your Name and Reg # in Next Lab after allocation of the assignment.

Q 1 Classes and Objects: [2 + 4 + 2 + 2 = 10]

- a) Write the code in JAVA language to create a class **Computer** having following specifications:
 - Two data members Type (String) and ProcessingSpeed (Integer).
 - The **SetData** and **ShowData** methods to set and show values of the data members.
 - A copy constructor to clone an existing object of the class.
 - Now, in the main class, create an object of the **Computer** class and call the SetData and GetData methods.

Q 2 Classes and Inheritance: [4+4+2=10]

- **b)** Derive two classes **Desktop** and **Laptop** from the **Computer** class:
 - Add an additional data member Location (String) to the Desktop class and Weight (Integer) to the Laptop class.
 - Override the SetData and ShowData methods in the two classes to process the additional data members.
 - Now in the main class, create an object for Desktop and Laptop Classes and call the SetData() and ShowData functions for each of the object.

"Practice Leads Towards Perfection"