**LAB 08 Tasks**

**Note: Follow the submission instructions**

1. Create a class named **'PrintNumber'** to print various numbers of different datatypes by creating different methods with the same name **'printn()'** having a parameter for each datatype.
2. Create a class to print an integer and a character with two methods having the same name but different sequence of the integer and the character parameters.  
   **For example**, if the parameters of the first method are of the form (int n, char c), then that of the second method will be of the form (char c, int n).
3. Create a class to print the ‘**area of a square and a rectangle’**. The class has **two** methods with the same name but different number of parameters. The method for printing area of rectangle has **two** parameters which are **length** and **breadth** respectively while the other method for printing **area of square** has **one** parameter which is **side** of square.
4. Create a class **'Student'** with three data members which are **name, age and address**. The constructor of the class assigns default values **name as "unknown", age as '0' and address as "not available"**. It has **two** members with the same name **'setInfo**()'. First method has **two** parameters for **name and age** and assigns the same whereas the second method takes has **three** parameters which are assigned to **name, age and address** respectively.  
   Print the **name**, **age** and **address** of **5** students.
5. Create a class **'Degree'** having a method **'getDegree**()' that prints **"I got a degree".** It has two subclasses namely **'Undergraduate'** and **'Postgraduate'** each having a method with the same name that prints **"I am an Undergraduate"** and **"I am a Postgraduate"** respectively. Call the method by creating an object of each of the three classes.
6. A boy has his money **deposited $1000, $1500 and $2000** in Banks-**Bank A, Bank B and Bank C** respectively. We have to print the money deposited by him in a particular bank.  
   Create a class **'Bank'** with a method **'getBalance**()' which returns 0. Make its three subclasses named **'BankA', 'BankB' and 'BankC'** with a method with the same name **'getBalance()**' which returns the amount deposited in that particular bank. Call the method **'getBalance()**' by the object of each of the three banks.
7. A class has an integer data member 'i' and a method named **'printNum**()' to print the value of 'i'. Its subclass also has an integer data member 'j' and a method named **'printNum**()' to print the value of 'j'. Make an object of the subclass and use it to assign a value to 'i' and to 'j'. Now call the method **'printNum**()' by this object.
8. Suppose a class **'A'** has a method to print **"Parent".** Its subclass **'B**' also has a method with the same name to print **"Child".** Now call this method by the objects of the two classes. Also, call this method by an object of the parent class referring to the child class i.e.

**A obj = new B();**