**Classes and Objects (Assignment)**

1. Create a class named 'Student' with a string variable 'name' and an integer variable 'roll\_no'. Assign the value of roll\_no as '2' and that of name as "John" by creating an object of the class Student.
2. Assign and print the roll number, phone number and address of two students having names "Sam" and "John" respectively by creating two objects of the class 'Student'.
3. Write a program to print the area and perimeter of a triangle having sides of 3, 4 and 5 units by creating a class named 'Triangle' with a function to print the area and perimeter.
4. Write a program to print the area and perimeter of a triangle having sides of 3, 4 and 5 units by creating a class named 'Triangle'
5. Write a program to print the area of a rectangle by creating a class named 'Area' having two functions. First function named as 'setDim' takes the length and breadth of the rectangle as parameters and the second function named as 'getArea' returns the area of the rectangle. Length and breadth of the rectangle are entered through keyboard.
6. Print the average of three numbers entered by the user by creating a class named 'Average' having a function to calculate and print the average without creating any object of the Average class.
7. Print the sum, difference and product of two complex numbers by creating a class named 'Complex' with separate functions for each operation whose real and imaginary parts are entered by the user.
8. [Find the Area of shapes using function overloading](https://www.codezclub.com/cpp-area-shapes-using-function-overloading/" \t "https://www.codezclub.com/cpp-solved-programs-problems-solutions/cpp-overloading-solved-programs-solutions/_blank)
9. [C++ program to find volume of cube, cylinder, sphere by function overloading](https://www.codezclub.com/cpp-volume-cube-cylinder-sphere-function-overloading/" \t "https://www.codezclub.com/cpp-solved-programs-problems-solutions/cpp-overloading-solved-programs-solutions/_blank)
10. [C++ class Program to perform rational number arithmetic](https://www.codezclub.com/cpp-rational-number-arithmetic-operator-overloading/" \t "https://www.codezclub.com/cpp-solved-programs-problems-solutions/cpp-overloading-solved-programs-solutions/_blank)