**Q1.STATEMENT:**

Write a C++ program to swap the values of two variables using Call by value and Call by reference mechanism.

**Q2.STATEMENT:**

Design a class called ”Complex” that represents complex numbers.The class should contain data members that stores real and imaginary parts. Moreover, it should contain member functions that can implement the elementary operations (Addition, Subtraction, Multiplication and division) of two complex numbers. Furthermore, the class should contain Print() member function that print complex numbers and the result of elementary operation on the screen in the form a + ib.

**Q3.STATEMENT:**

Write a program to calculate the age of a person and height in cms when year of birth and height in meters is known.

**Q4.STATEMENT:**

Create a base class called 'SHAPE' having two data members of type double member function get data( ) to initialize base class data members pure virtual member function display area ( ) to compute and display the area of the geometrical object. Derive two specific classes 'TRIANGLE' and 'RECTANGLE' from the base class. Using these three classes design a program that will accept dimension of a triangle / rectangle interactively and display the area.

**Q5.STATEMENT:**

Create a class 'COMPLEX' to hold a complex number. Write a friend function to add two complex numbers. Write a main function to add two COMPLEX objects.

**Q6.STATEMENT:**

Write Program to demonstrate use of constructors and destructors for performing dynamic operations

**Q7.STATEMENT:**

Create a class called 'TIME' that has three integer data members for hours, minutes and seconds constructor to initialize the object to zero constructor to initialize the object to some constant value member function to add two TIME objects member function to display time in HH:MM:SS format . Write a main function to create two TIME objects, add them and display the result in HH:MM:SS format.

**Q8.STATEMENT:**