



SCS 1310 - Object Oriented Programming

Tutorial 06

Take a screenshot that depicting code and result for each question.

Prepare a pdf file containing all the screenshots followed by question number.

Rename the pdf with your index number and submit.

(1) Get the sum of the positive numbers up to a user given number input using a while loop and do while loop.

(2) Print the sum, difference and product of two complex numbers by creating a class named 'Complex' with separate functions for each operation (add, difference) whose real and imaginary parts are entered by the user.

(3) Write a C++ program to add two matrices using multi-dimensional arrays.

(4) Write a C++ program to calculate and display the volume of a box. Create a class named Volume that uses an **initialization list** to initialize its length, breadth, and height.

- Include a constructor that uses the initialization list to set these values.
- Compute the volume using the formula $\text{Volume} = \text{length} \times \text{breadth} \times \text{height}$.
- Print the calculated volume.

You may use fixed values for the dimensions in the constructor.

(5) Write a program by creating an 'Employee' class having the following functions and print the final salary.

- 'getInfo()' which takes the salary, number of hours of work per day of employee as parameters.
- 'AddSal()' which adds \$10 to the salary of the employee if it is less than \$500.
- 'AddWork()' which adds \$5 to the salary of the employee if the number of hours of work per day is more than 6 hours.