Date: 01/02/2018

University/Academic Institution: Sandip University Course Name: M.Tech ACDS

Batch Name: 2017-19 Module Name: Advanced Data Structures

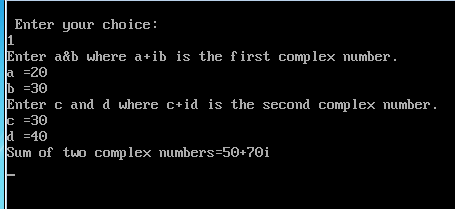
Pre -Assignment: (All programs to be committed via git only)

1. Write a C++ program, which initializes a string variable to the content "The desire to learn should be stronger than the desire to live" and outputs the string to the disk file OUT.TXT. Include all the header files if required.

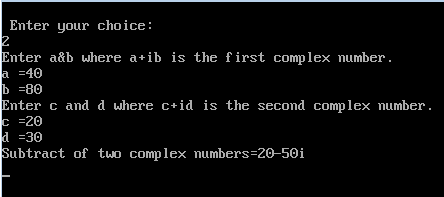
1. Declare a structure to represent a complex number (a number having a real part and imaginary part). Write C++ functions to add, subtract, multiply and divide two complex numbers.

output:

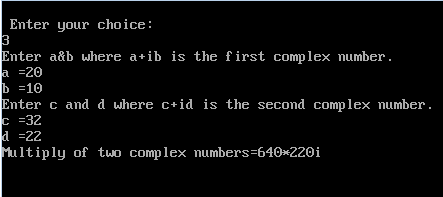
Addition of two complex numbers:



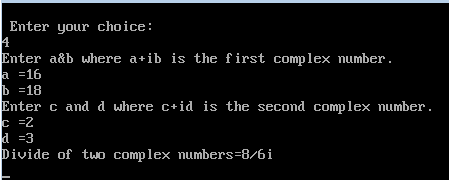
Subtraction of two complex numbers:



Multiplication of two complex numbers:

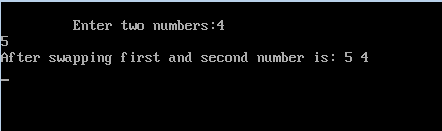


Divide of two complex numbers:



1. Write a program in C++ to swap values of two variables using pointers.

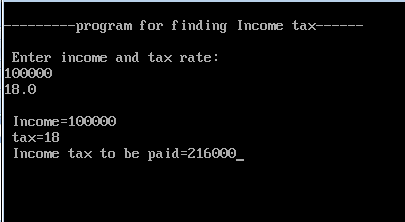
Output:



1. Write the definition for a class called **budget** that has floating point data members income and tax. The class has the following member functions:  
   **void show(float, float)** to set the specified value in object  
   **void display()** to display income and tax

**void calculate ()** to calculate tax on the basis of income (Rs 10000.0) and tax rate (18.0)

output:



Last Submission Date: 01/02/2018 (04:00 pm)