

Dear Students, Please find below the assignment questions, **to be submitted by 13<sup>th</sup> August 2018 (Monday)**.

Perform all these Questions in C++ and submit the **hard copy** of programs with screenshot of Output written in Word document.

**The assignments will not be collected after 13<sup>th</sup> August although you can submit it before time too.**

	QUESTIONS
1	The program takes birthdate as input and calculates the number of weeks and number of days that a person has lived as on the current date. Write a program to calculate the number of weeks and days.
2	The program takes birthdate and time of birth as input and calculates the number of hours, minutes and seconds that a person has spent as on the current date. Write a program for this.
3	Write a program to prepare the salary of an employee. The person works on a contractual basis and is paid based hourly. The working hours of the company are 9:00 AM to 6:00 PM. The employee is also paid for overtime. The remuneration for his work is 1200 per hour and 1500 per hour for overtime. Write the code to enter the number of days the person works and number of overtime hours. Calculate the total number of working hours and the amount to be paid to that person.
4	Bookstore problem. We need to read a file of sales transactions and produce a report that shows, for each book, the total number of copies sold, the total revenue, and the average sales price. Our program will combine the data for each ISBN in a variable named total. We'll use a second variable named trans to hold each transaction we read. If trans and total refer to the same ISBN, we'll update total. Otherwise we'll print total and reset it using the transaction we just read: -Write a program that reads several transactions and counts how many transactions occur for each ISBN. -Test the previous program by giving multiple transactions representing multiple ISBNs. The records for each ISBN should be grouped together.
5	Create a structure called Volume that uses three variables of type Distance (from the ENGLSTRC example) to model the volume of a room. Initialize a variable of type Volume to specific dimensions, then calculate the volume it represents, and print out the result. To calculate the volume, convert each dimension from a Distance variable to a variable of type float representing feet and fractions of a foot, and then multiply the resulting three numbers.
6	Write a program to calculate the volume of a cylinder, cube and rectangular box using the concept of function overloading
7	<ol style="list-style-type: none"> <li>1. Create a structure student. Add three members: name, rollno, marks in five subjects. Create constructor to initialize the values (non-parameterised and parameterised). Create functions to getdata( ) to get the student details from the user, display() to display the results, total_marks( ) to display total marks scored by a student, max_marks ( ) and min_marks ( ) to display the maximum and minimum marks secured by the student. Create another function to display the marks secured by student in increasing order.</li> <li>2. Modify the above program by creating an array of objects. Create another function success( ) that displays the details of the student having the highest marks. Also create function sort_marks( ) that displays the marks of students in increasing order</li> </ol>
8	Chapter- 9 Robert Lafore Book exercise 1,2,4
9	<ol style="list-style-type: none"> <li>1. Create a class date. Add three data members : day, month and year. Create functions to read and print date entered by the user. Create another function that adds number of days to the date and displays the date</li> <li>2. Write a program to add two strings using the + operator</li> </ol>