

### LAB #03 EXERCISES (C++)

QUESTION #1 A car traveled for some hours. Take the number of hours travelled as input at runtime, and then take input for the distance travelled during this time. Calculate the average speed and display it on the screen using C++.

QUESTION #2 Write a C++ program to print the given pattern using escape sequences.

QUESTION #3 Write a C++ program that takes two integer values as input from the user. Then swap the values taken from the user and display the output of the variables. (Value of num1 should be stored in num2 and vice versa).

QUESTION #4 A customer asks the IT firm to develop a program in C++ language, which can take tax rate and salary from the user at runtime and then calculate the tax the user has to pay and the salary he/she will have after paying the tax. Display the net income after tax deduction.

QUESTION #5 Calculate the volume of a cone using FLOAT data type for all values and output the final answer up to 3 decimal places exactly using C++.

QUESTION #6 Find both roots of the quadratic equation using the formula, after taking a, b, c as inputs using C++.