

CSE225L – Data Structures and Algorithms Lab
Lab 0
Running C++ in CodeBlocks

C++ Basics:

The lab instructor will familiarize the students about the C++ environment and coding style. The instructor should demonstrate *cout*, *cin* and other basic commands to students.

Tasks:

1. Take 2 integer inputs from keyboard and print their sum.
2. Take an integer from keyboard and find its factorial.
3. Take 2 integer inputs from keyboard and also ask the user for which operation to perform: '+' or '-' or '*'. Perform the appropriate operation and show the result. (Hint: you can use switch/case)
4. Write a function *isPrime(int n)* which checks if 'n' is prime or not. Use this function to print all the prime numbers between 300 to 500.

OOP concepts:

The lab instructor will show the class how to create classes and make objects. Especially the idea of *.h* files and *.cpp* files and including them.

Tasks:

1. Create a class 'Box' that has height, width and depth. The class should have a method *volume()* which shows the volume of the box.
2. Now, create a driver file where you will create multiple Box objects with arbitrary dimensions and show their result.