# C++ and Data Structures Algorithms — Hybrid - Notes

1. **Lecture2- Writing the first program - Hello World**

    **I**. Syntax :

    A specific way to write the programming language or code is called syntax

    **II**. Whole process :

    first of all we write the whole code after that compiler read and conpile the whole code and after that it'll give us output

    **III**. Return :

    it is because to let us know whether the code processing is done or not

    **IV**. Terminal :

    where we do all type of compilations

2. **Lecture3- Variables, Constants and Data Types Part -1**

    **I**. Cin and cout :

    Cin is for taking input from the user Cout is for printing or you can say output of the process or code

    **II**. Variables and constants :

    variables are thore value we can change for giving consttants like eg = int x = 5 here x is a variable and 5 is constant value whereas int is a data type

    **III**. Data types :

    int(integer) - numerical values - 3,54,56,6. float (decimal values) - decimal values - 3.6,5456.56. char(character) - a,b,c. bool(boolean) - (0/1)

3. **Lecture 13 - functions part 1**

    **I**. Functions :

    Output of the function is of return type same as numeric value has integer data type and value is called return value

4. **Lecture 14- functions pt 2**

    **I**. Functions :

    every function can return only one value and have multiple return statements

    **II**. Calling a functions :

    Every function starts from the main function,so utilizing the other functions through the main function is the soul purpose of using the function