

Assignment No. 1**Basic Algorithm and C++ Program****Aim**

Write an algorithm and C++ program to implement the following scenario:

Consider the students' records containing students' names and their examination score. Design an algorithm and write a C++ program that does the following:

- i) calculates the average of examination marks.
- ii) finds out and displays the names of all the students whose examination scores are below the average examination score.
- iii) calculates the highest examination score.
- iv) prints the names of all the students whose examination scores are the same as the highest examination score.

(Consider each part i), ii), iii) and iv) as an individual sub problem. The algorithm should depict the solutions of the sub problems.)

Objective(s)

1	To study basic building blocks of C++
2	To understand the concept of algorithm
3	To learn about variable declaration, input statements, output statements.

Theory

1. What is programming?
2. What is algorithm?
3. State and explain broad categories of software with suitable example.
4. What are the basic building blocks of C++ program?
5. Describe in details the steps involved in problem solving process.
6. Describe the analysis phase of programming.

(Write the detailed answers to the theory questions and upload the handwritten scanned copy along with the code in the classroom.)

Conclusion