



## **Proficiency in C++**

### **Developing an 8085 Assembler in C++**

#### **Introduction**

This course will take your knowledge of the 'C++' Programming language to the next level.

You will develop a complete solution to convert Assembly language code to machine code in an Intel-hex format file

This will involve using a object-oriented design approach to develop all components in the project.

You will learn important concepts like developing a Finite-State Machine to extract tokens, Parsing, generating parse trees, symbol tables and code generation

We will also implement search and find algorithms in the code as well as different data structures using the Standard Template Library

#### **Pre-Requisites**

Knowledge of C++ Programming and the Standard Template library

#### **Course Details**

The course is conducted on-line for 20 hours, and delivered by an experienced industry veteran.

Proficiency in 'C++' – Developing an 8085 Assembler in C++

# Course Contents

<b>Topic</b>
What is an Assembler and its different components?
Basic Design of the Assembler, Inputs and Outputs
Developing the Tokenizer
Pre-Processing the source file
Parsing the Source File and creating the parse tree
Error Handling and Generating Syntax errors
Symbol Tables
Code Generation
Generating different Assembler Outputs