Faysal Aziz

Introduction to CoBOL

FA-0257 · two day

Mainframe & Enterprise Systems

Introduction

This is a two day hands-on programming course that is designed to get an absolutely novice programmer familiarized and trained in coding in CoBOL. This is a beginner level course and assumes no prior CoBOL experience.

Learning outcomes

- Concepts of programming using the COBOL language
- OpenCobolIDE interface and the entire framework
- Identification Division
- Environment Division
- Data Division
- Procedure Division
- Analysis of the code and its logic

Prerequisites

In order to be able to participate in this course, the learner needs to comply with the following conditions:

- Programing experience (in any language)
- Access to PC [either one of these OS: MS Windows / Mac / Linux (ubuntu)]
- Full admin / root access to the above mentioned PC
- Experience and understanding of filing system
- Internet connection
- Webcam
- Microphone
- Dual screens

- Very basic understanding of server architecture
- Ability to comprehend the English language
- Minimum 99% attendance
- Basic education in mathematics (understanding of linear and non-linear mathematics at high-school level)

Training outline

1. Module 1

1. Review on programming fundamentals
2. Setting up the environment
3. IDE exploration
4. Hello World

2. Module 2

1. Variables In A COBOL Program
2. The Basics Of How A COBOL Program Is Set Up
3. COBOL Variables
4. Organizing the Data Division
5. Comments - letter to your future self
6. COBOL Copylibs
7. Debugging A COBOL Program
8. The DISPLAY Statement
9. The ACCEPT Statement
10. Data validation

3. Module 3

1. Conditions structure in CoBOL
2. Nested Conditions
3. The EVALUATE statement
4. Loop structure in CoBOL
5. Indefinite loops
6. Definite loops
7. For-loop equivalent

8. Combining loops with conditions

4. Module 4

1. COBOL Tables
2. COBOL Linear Search
3. COBOL Binary Search
4. Paragraphs and Sections
5. Identification Division
6. Environment Division
7. Data Division
8. Procedure Division

5. Module 5

1. Creating An Output Report File From An Input File
2. COBOL Subprograms And Linkage
3. A COBOL Program Example Of LINKAGE And Subprograms
4. COBOL Programs And JCL

6. Module 6

1. Hands-on practice
2. Assessment

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