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## COBOL Programming

### **Introduction**

- What is COBOL?
- Evolution of COBOL
- Benefits/Limitations
- Application Overview
- Program Development Process

### **COBOL Basics**

- Basic Program Structure
- Coding Rules
- Basic Program Sample
- DISPLAY Verb
- Syntax Errors

### **Identification & Environment Divisions**

- Identification Division
- Description, Format & Examples
- Environment Division
- Description, Format & Examples

### **Basic Data Manipulation**

- DATA DIVISION
- Basic Elements
- Simple Data Structure
- Field Levels
- Data Types
- The PICTURE Clause
- The VALUE Clause
- Moving Data
- The MOVE Verb

### **Arithmetic Operations**

- ADD Verb
- SUBTRACT Verb
- DIVIDE Verb
- MULTIPLY Verb



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COMPUTE Verb  
ROUNDED Option  
ON SIZE ERROR Option  
Rule-of-Thumb for Resultants

### **Basic Instruction in the PROCEDURE Division**

ACCEPT Statement  
Basic IF Statement  
Creating Paragraphs  
Simple PERFORM Statement  
GO TO Statement  
Elements of a Loop

### **File Concepts**

File Definition  
File Organizations  
Record Type  
Internal Representation of Data  
Usage of Data  
Calculating Record Sizes  
Collating Sequence  
File Processing  
Terminology

### **Defining Sequential Files**

Selecting Files  
Required Elements  
Describing Files  
Describing Records

### **Processing Sequential Files**

Process Flow  
Program Coding  
MVS Allocation Process  
Common Errors  
Data Validation

### **Structured COBOL**

What is Structured Programming



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Elements of Structured Programming  
Planning Tools  
Modular Approach  
Structured Coding Concepts

### **Report Writing Concepts**

Overview  
Common Report Types Control Level Breaks  
Physical Page Structure  
Page Management

### **Programming Logic for Simple Reports**

Describing Report Lines  
Edit Symbols  
Line Spacing  
Coding Report Logic

### **Programming Logic for Reports with a Level Break**

Control Level Logic  
Managing Current and Previous Key  
Summary

### **Tables & Arrays**

Table Concepts  
Creating a Table  
Using Data Tables  
Loading a Table  
Printing Table Contents  
Table Search

### **The Future of COBOL**

New Enhanced Features  
Development Platforms