

# Programming Using Flowchart and Pseudocode

## Chapter 1: Course Introduction

- What is Programming? How do I get Started?

## Chapter 2: Introduction to Programming Fundamentals

- Download and Install Diagrams.net to Create Flowcharts
- Demo: Create Your First Flowchart
- What is Pseudocode?
- Pseudocode Syntax

## Chapter 3: Coding Concept 1: Variable and its types

- Introduction
- What is a Variable?
- Integer Variables
- Float Variables
- Boolean Variables
- Character Variables
- String Variables
- A Note on Keywords

## Chapter 4: Coding Concept 2: Operators

- What are Operators?

## Chapter 5: Coding Concept 3: Conditional Statements

- Overview of Program Flow
- What are Conditional Statements?
- If Statement
- If Else Statements
- Nested If Else Statements
- Switch Statements
- 3 Tips for Right Usage of Conditional Statements

## Chapter 6: Coding concept 4: Loops

- What are Loops?
- Types of Loops
- 3 Tips for Right Usage of Loops

## **Chapter 7: Coding Concept 5: Functions**

- What are Functions?
- What is Function Signature?
- Types of Functions

## **Chapter 8: Coding Concept 6: Comments**

- What are Comments?
- Types of Comments

## **Chapter 9: Coding Concept 7: Exceptions**

- What are Exceptions?