Programming Fundamentals

Introduction to Programming

Programming is the process of writing instructions for computers to perform tasks.

Languages like C, Java, and Python are commonly used for beginners.

Variables and Data Types

Variables store data values such as integers, floats, and strings.

Understanding data types helps in managing memory efficiently.

Control Structures

Conditional statements like if-else control the flow of programs.

Loops such as for and while help repeat tasks.

Functions and Modules

Functions allow reusable code blocks.

Modules help organize large programs into smaller pieces.

Problem Solving

Programming requires logical thinking and step-by-step problem solving.

Practice with examples improves skills.