

Introduction to Programming

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What is Programming?

- Make instructions that tell computer what to do
- Write, test, and maintenance code to make an application
- Computers only understand machine code (0 & 1)

What is Programming Language?

- A Language for communication between humans and computers
- To translate your instructions/code into machine code (0 & 1)
- To automate complex and repetitive tasks
- To create applications or software for various purposes such as business, education, entertainment, and more.

Programming Language

- Each Programming Language is unique
- Each Programming Language also has an attribute known as power or level
- Low-Level Programming Language: Assembly, C
- High-Level Programming Language: Java, JavaScript, Python, C++, etc.
- Popular Programming Language: Python, JavaScript, Java, PHP, C++

Programming Language by Uses

- Web Development
HTML, CSS, JavaScript, PHP, Python
- Android App Development
Java, Kotlin, Dart and more
- iOS App Development
Objective-C, Swift
- Game Development
Java, C++, C#, Python and more
- Data Science, Machine Learning & AI
R, Python, Julia and more
- And more programming languages
by uses

Basic Concepts

Programming Language

- Variables
- Data Types: Integer, Float, String, Boolean and more
- Operators: Arithmetic, Logic, Comparator and more
- Control Structures: Selection Statemen (if-else, switch-case), Iteration/Looping (for, do-while)
- Functions/Methodes
- Algorithms

How to Write a Code?

- IDE (Integrated Development Environment): VS Code, PyCharm, Eclipse, NetBeans
- Text Editor: VS Code, Sublime Text, Atom
- Compiler/Interpreter: GCC, Clang, Python Interpreter

THANKS!

