COMPUTER PROGRAMMING BASICS

I assume you are well aware of English Language, which is a well-known **Human Interface Language**. English has a predefined grammar, which needs to be followed to write English statements in a correct way. Likewise, most of the Human Interface Languages *Hindi, English, Spanish, French, etc.* are made of several elements like verbs, nouns, adjectives, adverbs, propositions, and conjunctions, etc.

Similar to Human Interface Languages, Computer Programming Languages are also made of several elements. I will take you through the basics of those elements and put some effort to make you comfortable to use them in various programming languages. These basic elements are:

- Programming Environment
- Basic Syntax
- Data Types
- Variables
- Keywords
- Basic Operators
- Decision Making
- Loops
- Numbers
- Characters
- Arrays
- Strings
- Functions
- File I/O

I will explain all these elements in subsequent chapters with examples using different programming languages. First we will try to understand meaning of all these terms in general and then we will see how these terms can be used in different programming language.

I believe if you understood above-mentioned elements related to any programming language, then you are almost ready to write big enough programs in that programming language.

I designed this tutorial to give you an idea about the following most popular programming languages:

- C Programming
- Java Programming
- Python Programming

Major part of the tutorial has been explained by taking C as programming language and then I tried to show how similar concepts work in Java and Python. So after completion of this tutorial, you will find yourself familiar with those popular programming languages.

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