



Computer Fundamentals

Features of Language

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Introduction

- A good programming language must be simple and easy to learn and use.
- It should provide the programmer with a clear simple and unified set of concepts that can understand easily.
- The overall simplicity strongly affects the readability of the programs are written in that language and programs that are easier to read and understand are easier to maintain.
- It is also easy to develop and implement a compiler or an interpreter for a simple language.
- However, the power needed for the language should not be sacrificed for simplicity

The following are the characteristics of a good programming language

1. The language must allow the programmer to write simple, clear, and concise programs.
2. The language must be simple to use so that a programmer can learn it without any explicit training.
3. The language must be platform-independent. i.e, the program developed using the programming language can run on any computer system
4. The graphical user interface of the language must be attractive user-friendly and self-explanatory

5. the function library used in the language should be well documented so that the necessary information about a function can be obtained while developing application
6. several programming constructs supported by the language must match well with the application area it is being used for.
7. The programs developed in the language must make efficient use of memory as well as other computer resources.
8. The language must provide necessary tools for development, testing, debugging, and maintenance of a program. All these tools must be incorporated into a single environment known as Integrated Development Environment, which enables the programmer to use them easily.
9. The language must be consistent in terms of both Syntax and semantics.