

**Faculty of engineering - Shoubra**

**Benha University**

**Research Article / Research Project / Literature Review**

in fulfillment of the requirements of

|  |  |
| --- | --- |
| **Department** | **Engineering Mathematics and Physics** |
| **Division** | **-----------------** |
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| **Course name** | **Computer** |
| **Course code** | **ECE001** |

**Title: -**

**Programming Languages**

By:

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| --- | --- | --- | --- |
|  | Name | Edu mail | B.N |
| 1 | حسام سيد عبدالسلام احمد امام | hossam195317@feng.bu.edu.eg | 286 |

**Examiners committee**

|  |  |
| --- | --- |
| 1 | Dr.Ahmed Bayoumi |
| 2 | Dr.Shady Elmashad |
| 3 | Dr. Abdelhamid Attaby |

|  |  |  |
| --- | --- | --- |
| Name | : | **Hossam Sayed Abdelsalam Ahmed** |
| B.N | : | **286** |
| Date | : | **30/5/2020** |
| Topic | : | **Programming Languages** |
| Github link | : | <https://github.com/hossam201/Programming-Languages-project> |
| Github page | : | <https://hossam201.github.io/Programming-Languages-project/> |

**1: Application Brief**

A programming language is a notation for writing programs, which are specifications of a computation or algorithm. Some authors restrict the term "programming language" to those languages that can express all possible algorithms.

**There are three types of programming language**

* Machine language (Low-level language)
* Assembly language (Low-level language)
* High-level language

**Machine language**

The set of symbolic instruction codes usually in binary form that is used to represent operations and data in a machine (such as a computer)

**Assembly language**

A programming language that consists of instructions that are mnemonic codes for corresponding machine language instructions

**A high-level language**

A high-level language is a programming language designed to simplify computer programming. It is "high-level" since it is several steps removed from the actual code run on a computer's processor. High-level source code contains easy-to-read syntax that is later converted into a low-level language, which can be recognized and run by a specific CPU.

Most common programming languages are considered high-level languages. Examples include:

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| --- | --- | --- | --- | --- | --- |
| C++ | C# | Cobol | Fortran | Java | JavaScript |
| Objective C | Pascal | Perl | PHP | Python | Swift |

**2 : Screen Shots**

**3 : Screen Code**

**Programming language**

A programming language is a notation for writing programs, which are specifications of a computation or algorithm. Some authors restrict the term "programming language" to those languages that can express all possible algorithms.

**Types of Programming Languages**

High-level language

Low-level language Assembly

Machine Language

Sometimes abbreviated as **HLL**, a **high-level language** is a computer programming language that isn't limited by the computer, designed for a specific job, and is easier to understand. It is more like human language and less like machine language. However, for a computer to understand and run a program created with a high-level language, it must be compiled into machine language.

The first high-level languages were introduced in the 1950s. Today, high-level languages are in widespread use. These include BASIC, C, C++, COBOL, FORTRAN, Java, Pascal, Perl, PHP, Python, Ruby, and Visual Basic.