

Cse103 · they are
platform independent
· they

[Entertainment](#), [Games](#)



CSE103 SYSTEMS DEVELOPMENT PROCESS ANIS PATEL CSE17-046 PART

AT THE HISTORY OF PROGRAMMING LANGUAGES Introduction Programming

Languages are sets of rules/instructions that make a computer carry out specific operations. A Programming Language has symbols, words and syntax (grammatical rules).

A programming language is used to create programs for the computer.

Definition of Keywords Programming Languages are a notational system for portraying computation in a human-readable and machine-readable form.

Notational-System = is a group of symbols used to portray facts and special things. Computation = is a mathematical calculation.

Classification of Programming Languages · Low level

languages Ø Machine language which is known as binary language, and the instructions which the computer can understand come in the form of 1 (True) or 0 (False), and is tough for humans to understand. Ø Assembly language has the same instructions as machine language and also uses symbols to define a set of commands (E. g. load, store, add, etc). An assembler is required to translate assembly language instructions into machine language for the computer to understand.

· High level languages are closer to human languages and are understood by humans. Programs written in high level languages must be translated by compilers/interpreters into machine language for the computer to understand. Examples: C, C++, COBOL, FORTRAN, JAVA, LISP, ADA, BASIC, Prolog, Python etc.

High Level Programming Languages Key Features · They are known as

Problem oriented Language · High level programming languages

commands and instructions are much easier to read, understand, write and modify. They are Platform independent. They are Easy to maintain. They have less errors and better documentation. Program preparation cost is low. It is less time consuming to write code for programs than using low level programming languages. High level Programming languages are used for: Programming applications and websites. Creating software. Creating games. Examples of High level Programming languages: C, C++, JAVA, COBOL, FORTRAN, ADA, LISP, BASIC, Prolog, Python.

General Trends of the Programming Languages Python is the number one most used programming language used in 2017 because Python is a general purpose language which allows developers to code fewer lines than C++ or Java. It also has good Object Oriented Programming support and clear Syntax. Second most used programming language used is C because it has built in operations and functions that are used to write any program. Java is the third most used because it is easy to understand and simple to use and also because the code can be re-used.