# Programming languages.

Programming language is a formal language for writing computer programs. Nowadays a lot of different programming languages exist in the world. Most of them are specialized for a specific programming paradigm. Programming paradigm is a set of ideas and concepts that define an approach to programming.

I will tell you about most popular paradigms. One of them is structural programming which is based on the representation of a program in the form of a hierarchical block structure. For example, programming languages like C, Pascal and Algol support this paradigm.

Another paradigm is object-oriented programming. This paradigm born from the disadvantages of previous paradigm. It based on the representation of the program as a set of interacting objects. But OOP has its own disadvantages, so for some tasks structural programming will be better. C++, C# and Java are most popular programming languages for this paradigm.

Functional programming – LISP.

Logical programming – Prolog.