# Programming Terminologies

### Programming Language

A **programming language** is a special language programmers use to develop software programs, scripts, or other sets of instructions for computers to execute. It is a media of communication between human and machine (computer).

### Program

A **program** is a specific set of ordered operations for a computer to perform. It is also a logical pattern of instructions to solve a problem.

### Programming

**Programming** is an art and science of designing a program. Furthermore, a process of taking an algorithm and encoding it into a notation, a programming language, so that it can be executed by a computer. Although many programming languages and many different types of computers exist, the important first step is the need to have the solution. Without an algorithm there can be no program.

### Programmer

A person who designs or creates, codes, test, debugs and documents a computer program is called **programmer**.

### Algorithm

Like a cooking recipe, an **algorithm** provides a step-by-step method for solving a computational problem.

### Pseudocode

A **pseudocode** is a detailed yet readable description of what a computer program or algorithm must do, expressed in a formally-styled natural language rather than in a programming language. Pseudocode is sometimes used as a detailed step in the process of developing a program. It allows designers or lead programmers to express the design in great detail and provides programmers a detailed template for the next step of writing code in a specific programming language.