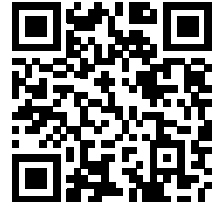


name: class: date:

Programming



Computer programming, often just called _____, is a process of designing and building an executable computer program to accomplish a specific computing _____ or to perform a specific task. Programming involves tasks such as analysis, generating _____, profiling algorithms' accuracy and resource consumption, and the _____ of algorithms in a chosen programming language, commonly referred to as coding. The _____ code of a program is written in one or more languages that are understandable to _____, rather than machine code, which is directly executed by the central processing unit. Moreover, the _____ in which a computer program is written is a crucial aspect of programming. There are several _____ of programming languages, each with their unique syntax and use. For example, Python is known for its _____ and readability, making it a popular choice for beginners. On the other hand, languages like _____ and C++ are used in complex systems such as operating systems and large-scale enterprise _____. Another important aspect of programming is _____, which involves finding and fixing errors in the code. This process is critical because even a small _____ can prevent a program from running correctly. In addition to writing code, programmers must also understand the _____ and structure behind programming. This involves thinking algorithmically and solving _____ systematically. For many, programming is not just a skill but also an art, requiring _____ and an in-depth understanding of technology. As technology continues to _____, the field of programming is becoming increasingly important, offering endless opportunities for _____ and problem-solving. Whether for creating websites, developing apps, or even programming _____, the skills of a programmer are in high demand in today's technology-driven world.

evolve

implementation

creativity

programming

logic

programmers

solutions

language

error

Java

algorithms

source

innovation

simplicity

robots

result

problems

types

debugging