

14 Lecture - CS101

Important Subjective

1. **What is a programming language? Answer:** A programming language is a formal language that specifies a set of instructions for a computer to follow in order to perform a specific task.
2. **What is the difference between a high-level and a low-level language? Answer:** A high-level language is more abstract and easier to read and write than a low-level language, which is closer to machine code and requires a deeper understanding of computer architecture.
3. **What is an interpreted language? Answer:** An interpreted language is a programming language that executes code directly, without compiling it into machine language.
4. **What is a compiler? Answer:** A compiler is a software program that translates source code written in a programming language into machine language that can be executed by a computer.
5. **What is an object-oriented language? Answer:** An object-oriented language is a programming language that organizes code into objects, which encapsulate data and functionality and can communicate with one another.
6. **What is a scripting language? Answer:** A scripting language is a programming language that is designed to automate frequently performed tasks, such as data manipulation, system administration, and web page creation.
7. **What is a variable? Answer:** A variable is a container that holds a value or reference to a value in computer memory.
8. **What is a function? Answer:** A function is a block of code that performs a specific task and can be called from other parts of a program.
9. **What is debugging? Answer:** Debugging is the process of finding and fixing errors in software code.

10. **What is an algorithm? Answer:** An algorithm is a set of instructions for solving a specific problem or performing a specific task, often used in computer programming.