

# 1 Lecture - CS101

## Important Subjective

**What is a programming language?**

**Answer:** A programming language is a set of instructions and commands used to create software programs, applications, and websites.

**What is an algorithm?**

**Answer:** An algorithm is a set of instructions used to solve a problem or complete a task, often used in programming.

**What is a data structure?**

**Answer:** A data structure is a way of organizing and storing data in a computer, such as an array or a linked list.

**What is a function in programming?**

**Answer:** A function is a reusable block of code that performs a specific task or set of tasks within a program.

**What is the difference between a variable and a constant?**

**Answer:** A variable is a value that can change during program execution, while a constant is a value that remains the same throughout the program.

**What is an operating system?**

**Answer:** An operating system is software that manages computer hardware and software resources, and provides common services for computer programs.

**What is a database?**

**Answer:** A database is a collection of data that is organized and stored in a computer, typically used for managing large amounts of information.

What is a network?

Answer: A network is a collection of computers and devices connected together, often used for sharing information and resources.

What is object-oriented programming?

Answer: Object-oriented programming is a programming paradigm that uses objects and their interactions to design and create software programs.

What is the difference between a compiler and an interpreter?

Answer: A compiler translates entire program into machine language, while an interpreter reads and executes the code line by line.