

2 Lecture - CS101

Important Subjective

1. **What is computer science?** Answer: Computer science is the study of computers, computing, and computational systems. It involves the theory, design, development, and application of computer software and hardware.
2. **What are the main areas of computer science?** Answer: The main areas of computer science include algorithms and data structures, programming languages, computer architecture, software engineering, artificial intelligence, databases, computer networks, human-computer interaction, and cybersecurity.
3. **What is the difference between computer science and computer engineering?** Answer: Computer science focuses on the theory and application of computer software and hardware, while computer engineering focuses on the design and development of computer hardware.
4. **What is the role of algorithms in computer science?** Answer: Algorithms are a fundamental part of computer science. They are a set of instructions that specify a sequence of steps to solve a particular problem or perform a specific task.
5. **What is software engineering?** Answer: Software engineering is the process of designing, developing, testing, and maintaining software systems. It involves the application of engineering principles to software development.
6. **What is artificial intelligence?** Answer: Artificial intelligence is the development of computer systems that can perform tasks that typically require human intelligence, such as learning, reasoning, problem-solving, and perception.
7. **What is human-computer interaction (HCI)?** Answer: Human-computer interaction (HCI) is the study of how people interact with computer systems and the design of user interfaces to make them more intuitive, efficient, and effective.
8. **What is computer graphics?** Answer: Computer graphics is the creation and manipulation of images and animations using computer software and hardware.

9. **What is computer networking?** Answer: Computer networking is the study of the interconnection of computers and devices to enable communication and the exchange of data.

10. **What is the future of computer science?** Answer: The future of computer science is expected to be focused on new and emerging technologies such as artificial intelligence, machine learning, quantum computing, and the internet of things (IoT). It will continue to be a rapidly evolving field with many opportunities for innovation and growth.