

# 13 Lecture - CS408

## Important Subjective

### **What is a computer?**

Answer: A computer is a complex electronic device that processes data and performs tasks based on instructions provided by a user or software.

### **What are the key hardware components of a computer?**

Answer: The key hardware components of a computer include the central processing unit (CPU), memory, storage, input devices, and output devices.

### **What is the purpose of an operating system in a computer?**

Answer: An operating system is software that manages the computer's hardware and software resources, and provides a user interface for interacting with the computer.

### **What is a graphical user interface (GUI)?**

Answer: A graphical user interface (GUI) is a type of user interface that uses visual representations and icons to enable users to interact with software and perform tasks.

### **What is natural language processing (NLP)?**

Answer: Natural language processing (NLP) is a field of study that focuses on enabling computers to understand and respond to human language, allowing for voice-based interactions with devices and software.

### **What are some examples of adaptive input devices for individuals with disabilities?**

Answer: Examples of adaptive input devices for individuals with disabilities include eye-tracking devices, mouth-sticks, and sip-and-puff devices.

### **How has touch-screen technology influenced human computer interaction?**

Answer: Touch-screen technology has enabled users to directly interact with graphical elements on the screen using gestures and touches, leading to the widespread adoption of mobile devices such as smartphones and tablets.

**What are virtual assistants and give an example?**

Answer: Virtual assistants are software programs that use natural language processing to understand and respond to voice-based interactions. Examples include Siri, Google Assistant, and Amazon Alexa.

**How has computer technology impacted the field of healthcare?**

Answer: Computer technology has impacted healthcare by enabling electronic health records, telemedicine, medical imaging, and simulation training, among other applications.

**Why is human-centric design important in HCI?**

Answer: Human-centric design is important in HCI because it prioritizes the needs and abilities of humans, ensuring that technology is usable, accessible, and inclusive, resulting in positive and meaningful human computer interactions.