

# 16 Lecture - CS410

## Important Subjective

### 1. Question: What is an input device?

**Answer:** An input device is a hardware component or tool that allows users to interact with a computer system by providing data or commands.

### 2. Question: Explain the purpose of a keyboard as an input device.

**Answer:** A keyboard is used to input alphanumeric characters, numbers, symbols, and commands into a computer. It is a primary tool for text-based communication and command entry.

### 3. Question: Describe the function of a mouse in computing.

**Answer:** A mouse is an input device that allows users to control the movement of a cursor on the screen. It is used for pointing, clicking, dragging, and interacting with graphical user interfaces.

### 4. Question: How does a touchscreen work as an input device?

**Answer:** A touchscreen detects the touch of a user's finger or a stylus on its surface to register input. It translates these touch interactions into commands or actions on the device's display.

### 5. Question: What is the role of a scanner in input devices?

**Answer:** A scanner is used to convert physical documents, images, or graphics into digital format by capturing and digitizing the content.

### 6. Question: Explain the concept of voice recognition as an input method.

**Answer:** Voice recognition involves converting spoken words or commands into text or actions by using specialized software and algorithms to analyze and interpret human speech.

### 7. Question: How does a graphics tablet function as an input device?

**Answer:** A graphics tablet, also known as a pen tablet, allows users to draw, sketch, or write directly onto a digitized surface using a stylus. The device translates the stylus movements into digital data.

**8. Question: Describe the working principle of a barcode reader.**

**Answer:** A barcode reader uses a light source and sensors to scan and interpret the pattern of black and white lines (barcode) on a product. It converts this pattern into a digital code that represents the item.

**9. Question: What is the purpose of a webcam as an input device?**

**Answer:** A webcam is used to capture live video footage, enabling video communication, online conferencing, streaming, and video recording.

**10. Question: Explain the concept of motion-sensing input devices with an example.**

**Answer:** Motion-sensing input devices detect physical movements and gestures. An example is a gyroscope-equipped controller for gaming, where tilting the controller affects gameplay in certain ways.