

## Structure of Intelligent Agents:

### 1. **Perception Module:**

- **Function:** Receives and interprets information from the environment.
- **Components:** Sensors, cameras, microphones, or other means of collecting data.

### 2. **Knowledge Base:**

- **Function:** Represents the internal model of the world, storing information about the environment.
- **Components:** Memory or database where the agent stores information.

### 3. **Reasoning/Decision-Making Module:**

- **Function:** Processes information from the perception module and the knowledge base to make decisions.
- **Components:** Algorithms, rules, or logic systems for decision-making.

### 4. **Action Module:**

- **Function:** Executes chosen actions in the environment.
- **Components:** Actuators, motors, or other mechanisms for interacting with the external world.

### 5. **Learning Module (in Learning Agents):**

- **Function:** Adapts the knowledge base based on feedback and experiences, improving the agent's performance.
- **Components:** Machine learning algorithms, training data, or reinforcement learning mechanisms.