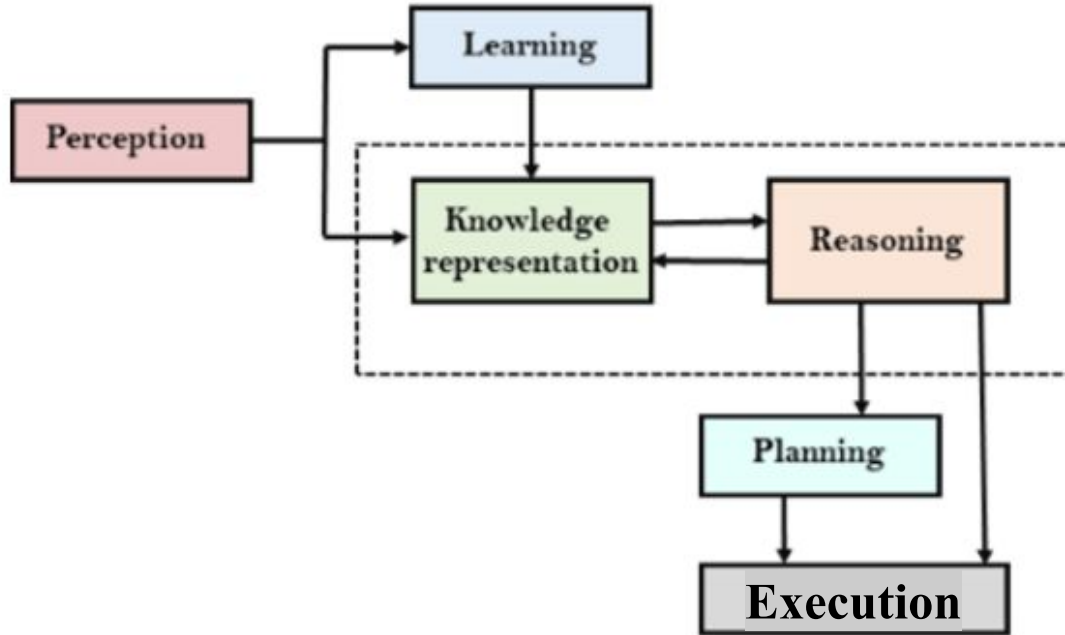


# Knowledge Representation System



# Knowledge Representation System



- **Perception:** retrieves information from its environment. It can be visual, audio or another form of sensory input.
- **The learning component :** responsible for learning from data captured by Perception component.
- **Knowledge representation and Reasoning:** two main components
- These two components are involved in showing the intelligence in machine-like humans. These two components are independent with each other but also coupled together.
- **The planning and execution** depend on analysis of Knowledge representation and reasoning.

# Logical Representation

- Language with some concrete rules which deals with propositions
- Drawing a conclusion based on various conditions
- Consists of precisely defined syntax and semantics
- Each sentence can be translated into logics using syntax and semantics
- Syntax
  - rules which decide how we can construct legal sentences in the logic
  - determines which symbol we can use in knowledge representation
  - how to write those symbols
- Semantics
  - assign a meaning to each sentence

