12/01/2022 Types of Agent

1) Table-based Agent: -

> input from sensors-percept sequence. triggere actions through actuators

> for all possible percept sequence, their mapping to actions are predetermined and stored in a table

while running, just lookup in the table for the corresponding action to the current percept.

Disadvantages: . . No autonomy. Advantages
. Enormous space may require. . Less three taking.

simple reflect agent

(percept)

source on current 1/p, no history of percept.

Reactive agent, stimulus response agent.

No strategic plannings no learning. Smitable for fully observable envisonment.

3) State-based Agent

-> based on state of the environment & knowledge (memory).

-> also work for partially observable environment.

4) Goal-based Agent

are currently from their goal etates use search & Blanning

5) Utility-based Agent

to designed on their end use.

> performance is measured in terms of utility. End use: Safe, auck, Cheep trip to destination Utility: " how happy/ satisfied " he customer is.

6) Learning Agent: -

seam from past experience, it has learning capability.

act and adapt automatically through rearning.

True autonomy. Ly Initially : they work in unknown environment.

Summary

Agent

Total Agent

Autonomous Agent

Agent Porgram

Environment

Types of Agent

Rational Agent

Bounded Equionality

State Space Search

Algorithms