## Task Environment (peas)

Example: Taxi Driver - Diagonsis system

Part picking robot - English tutor

etc...

Slider 11 & relevel

## Properties of task Environment

cup a categories is faire

Agent Il ChitiA Duriel

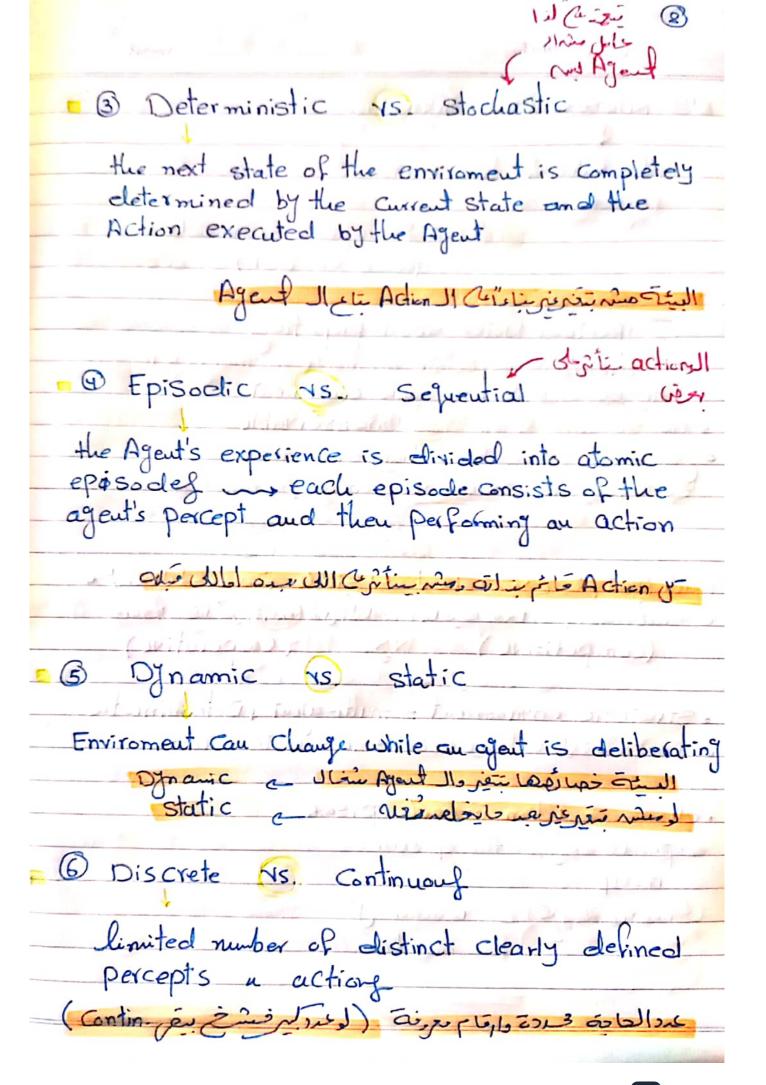
O fully observable Vs. partially observable elilipoliticano disconsideral partially observable

An agent's Sensors give it access to the complete state of the environment at each point in time

- @ Single Agent NS. Multiagent

An agent operating by itself

Agent in the green and of the or air valellelimitelle



the Rules of the environment are known to the

ون دواعد معندة ستحكم آداء الد لمسهم المعادد الد المسهم المعادد المعاند المردد ومعرفها شم)

Important Notes about properties

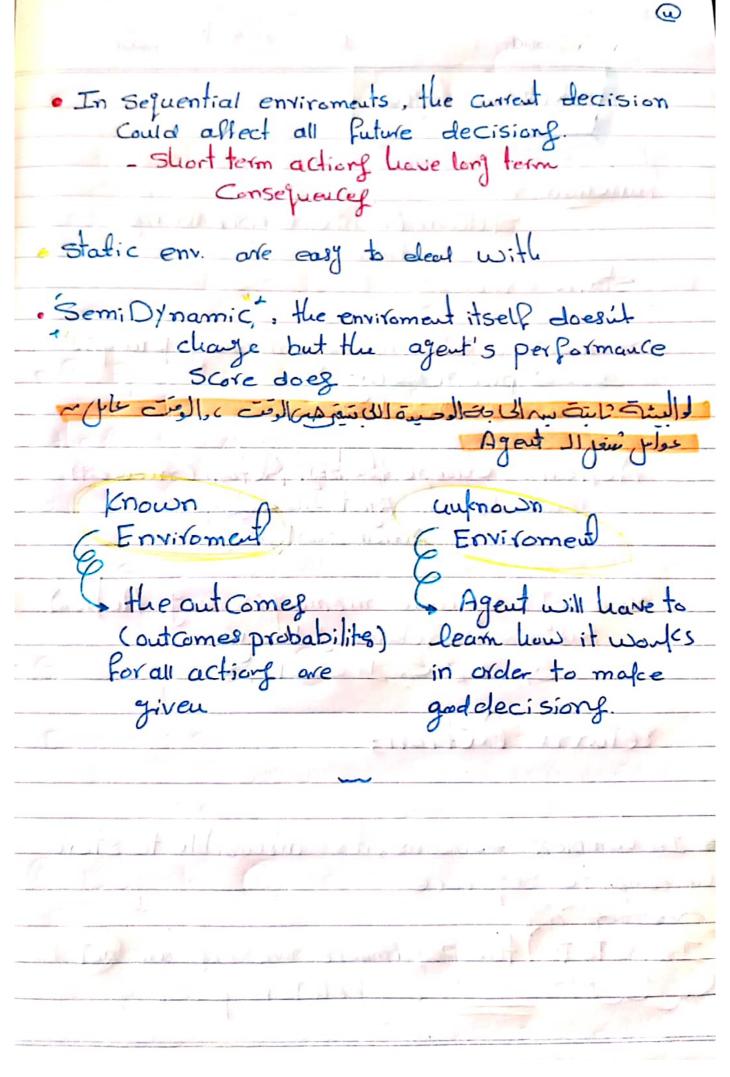
- Fully observable are more convenient
  - no sensors at all = unobservable
  - an Environment can be Partially Observable es because of inaccurate sensors

مرسفاله الموسطين على الماسم الما بن منعا وبين بعاه ولامناسين الما بن منعا وبين بعاه ولامناسين ( Cac perative )

- strategic environment = multi-agent + Deterministic Cortainty = fully observable + Deterministic
- elepends only on the episade

مل action ما مم بذلة وملوبى دعوه باللي صكا الدمعيده

ون حالات uncertainedy JI Strately Les miciono لارم اوقف وا حدكارع Feedbacks والرسى اساسها معل ايه. certainty 1150 min



Skeleton Agent Punction Skeleton-Agent (precept) returns Action. Static = memory memory: update memory (memory. precept)

baisa precept charley

memory 10001, on Action: Choose the best Action (memory) manon Jichen Agant Jino Testes Action مسند Modified memorj: up date memory (memorj, Action)
Action impos (eturn del pé Cradle on Join 17,8 return Action; In Complex domains, it's infeasible to store the complete sequence He performance measures are not part of skeleton programs



## Diver Agent

index into table sercept sequence and use it to

precept \_\_\_ index

Action \_ Element

س الفكرة دى منفعتشم الان حلات عليلة ارى لا كامال precept عليلين واله Action قليلين

1 the table needed for Something Simple 1 the designer will take along time building it 1 the Agent has no autonomy