Tutorial NU:- 02

Tutorial 2

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5Ub:- 15 LAB

Вакћ:- Іг

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Tutorial No:-2	
Tutorial 2:- To understood State space problem	er_
Bin - To understand 5	_
Formulation of the Space based problem	7_
Formulation Of AI problems 50 that pro	ibici
Theory:- First we understand the problems solving age Algorithm Shows in Figurs 3 shows agent problem Solving For problem solving agent Agent fil formulation good and problem, then determ or rather searches an action sequence	76m
functions:5:mpk:- problem - Salving - Ayent leturn or act Static:-Seq. an action Sequence, initially empty 5 tate," solve description of current world state.	ian
godl, a goal, initially null	
problem , a problem Formulation	
Fluter walne si . C	4
Statex- update - 5tak (state, percept)	
if seq. is empty then do	_
gouls - Formulations - Goal (state)	
problem - Faimulate problem (5tale, god	()_
Seq (- Search (problem)	
action = First (Seq)	
5eq <- Rest (Seq)	
return action	
Fig:- Problem 50/Ving agent architecture.	

Defining the problem is referred to as problem.
Formulation: - it involves defining Fullowing Five.
things:-

Initial State: it is the starting state that the

Action is defines all person possible action avoidable to the agent given it is in some state a Culiantly, it is Function Action (s) that letuins List of all possible actions

Trunsition model also known as successo-function which define which state is the system tried to move to when a part puricular action is execulted by the agent

GOW Test This act as a Stopping Candition when the State passed to this function is gowl state it will return true

path cast it is accumulated cast of performing certain sequince of actions. This can help in determining wether the action sequence under consideration is optimal.

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-	Warking: Based un understanding of Problems Formulation Student need to Formulate Following problem
	O Navigure to KACE Warkshop From HOD IT Cabin with minimum of moves, moves can be Climbing or alighting Staircase
_	2) 8 puzzie problem
	3) N Overi's problem, Airange N queens and a MN CIOSS N Chess board While no two queens witack each other. 5) Two room Vaccum electer world
_	6] water Jug problem.
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