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K.G.C.E. Karjat - Raigad

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	Tutorial -2	9
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(1) (4)		Tutorial 2: To understand State Space problem.
		Comulation
		the street the second s
		Olin ? To understand State Space based problem formular
1 (1)	ŧ.	of AI problems so that Problem Solving Agent can be applied-
1 1		A service to the house of the service of the servic
		Theory: first we understand the problem solving agent.
1.11.	, . 10	-Alagnithm shown in Fig 3 shows agent progresms for
	- 3	millen rolling agent. Agent first formulaus god and
		and an these detrumines or rainer sealons an actor
11101 3		sequence after which it seturns the next auton to be
	- ()	executed in a sequential manner.
F 11 1	(e _j [/]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		function SIMPLE PASSIEM - SOLVING AGENT (peucept) returns an
	. 18	static: seg, an action seg, initially empty
	1.9	state some descript of world state
	,	god, a goal, initially mell.
1 7.	710	problem a problem formulation
	1 - 3	Stall OPDAIG-S (AIG-16 Stall) poriging
· (· · · · · · · · · · · · · · · · · ·	4 4	if sequistempty then do you
		goal tormorate - GOAL (state)
1 14 186	, , 1	problem - formulate problem coraci, good)
	(12.1)	SegA+ SEAACH (problem)
		action - FIRSTILLSeg) Illian 1990
		seq = REST (seq)
	- 1	never action adjusted & the second
1	11	Fig. 3: Problem Solving Agent Architectore
160	(1)	in the offered transfer productions without the distriction of the second of the secon
almanic.	CF -	Defining the problem is rejuved to as problem formulat. It
	2	involves Edining foll. fire things:

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Initial state: it is the stanting state that the problem is in. Actions: defines all possible actions available to agent, given in some state corrently. It is fundion advious that seturn list- of all possible actions. Transition Model: also known as successor font which. define which state the system tend to more to when a particular action is executed by the agent. God Test! This act as a stupping condition when the State passed to this function is good state it will return the and seauching would brop. It willing tain cost: It is accumulated cost of performing contain Sequence of actions in the language of the Thus a problem can formally specified by identifying initial state, actions transition model god test & path cost. In term of problem solving agent solvis the path from initial state optimal solvis the lowest path cost of all sol. Process of finding a sol. is called search. Working? Based on understanding of problem formulat Students need to formulate foll problems. They will eleavely Show state space up to depth/terd/3/Hill goal node which every is shallowest. In the throng standard 1. Navigate to KCCG Workshop from HOD IT Cabin with min. no. of mores mores can be elimbing / alighting staircase toming left night walking through a corridor. 2.8 Puzzle problem 3. The missionavies & cannibals problem. There are 3 missionaries 4 13 connibate who cross a niver using a boat which can eavery at most two people under the constraint that for both banks, if there are missionaries present on bank they cannot be outnor by cannibals

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	board where no two queens attack each other.		
	5. Two room vacum scapey world, or Water Jug Problem		
	Resources: Rejer to second chp. from AI: A morder - Approach.		
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