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Tutorial no: 2

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Tutorial 2: To understand State space problem for Chim: To understand State spaces based problem formulation of AI problems so that problem solving Agent france applied. Theory: First we understand State Space Lased problems I follow agent Agent first formulater goal & groblems. Other determines or rather searches an action sequence, after which it returns the next action to be executed in sequential manner function SIMPLE-PROBLEM-SOLVING-AGENT (percept) returns an action Static: Seg, an action sequence, initially empty.
State, some discription of current world state goal, a goal, initially nul problem, a problem formulation State = UPDATE - STATE (State, percept) if seg is empty then do goal = FORMULATE-GOAL (State) grobben = FORMULATE- PROBLEM (State, goal) seg = SEARCH (problem) action = FIRST (89) 8eg = REST (89) return action fig. 3 problem Solving Agent Architecture

Date: Defining Problem is referred to as problem formulation It involves defining following five things: Initial State: It is the starting state that problem is in Hotions: It defines all pressible actions available to returns list of all possible actions. transition Model: also known as successor function which define which state/s then system tend to move to when a particular action is executed by the agent. Successive application of bransact transition model gives rise to what is know as Hate Space > Test: This act as a Stopping condition when state passed to the function is good state it will return true and searching would stop. Lost: It is included accumulated cost of performing certain Sequence of action. The can help in determining weather the action squence under consideration is optimal This a problem can formally specified by identifying initial State, actions (operators), transation model function), goal test and path cost. In term of perolelem solving agent solution is path from initial state to a goal state, optimal solution is the lowest path cost of all

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	Solutions Process of finding a solution is co	alled Search
	Morking:	
	Toged on understanding of geoblem formulat	tion students no
	to formulates following peroblems. This is	all clearly show
	Statt space up to depth level 3. or till go	sal mode which
	ever ix shallowest.	
	GYA 7	
	8 puzzle groldem:	1
	The & puzzle & comments of light num	dered, movable
	tiles set in a 3x3 frame. One coll of fra	me is always
	Jempty thus making it possible to move an bud	
	tile into empty od! Sich a puzzle is illustra	to in following
	figure 1	0 9
	9 80 3 1	<b>E E</b>
	1 6 4	2 3
	7 5	0 5
	Initial State Good	State
	CION CONTRACTOR OF THE CONTRAC	stall
	fig: Example of 8 puzzle.	
1		
	The grogram is to change the initial config	nunation lists
	My Condition	
	A solution to the problem is an appropriate	Sequence to
	of milher xich of manning the	
	right, more tile I to left, more tile 6 to d	oun" etc
	D. Commercial Commerci	ANTI VIC.

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		1	6	4				
		-f		5				
					-			
	283	2	8	3		12	8	3
	1 6 4	1		4		1	6	4
	7 5	7	6	5		7	5	
			W A					
	283	2		3		2	8	3
	1 4	1	8	4	100	1	4	
	7 6 5	7	6	5	1000	f	6	5
	-131				1			
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1	65 65	AA	6	5	1家	17	6	5
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	1001	61		0/	4			
	10	4	2	3	* /			
	139	1-0	8	4				
	-	17	6	5				
	# /	(						
	123				1 2	3	3	
	8 4				7 8		4	
	7 6 5				6	CHARLES MICHAEL	5	
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	0 0 0		0	0				
	fig: Solutio	n of	80	DWZZ	arg e	olem	1	

K.G.C.E. Karjat - Raigad Page No.: 9 Date: Hate space mitial state HOD Cabin left Covidor lab A lawr Covidor Exit Covidor Stage Working