**K.G.C.E.** Karjat - Raigad

## Tutorial NO:-02

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*	Tutorial 2
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## Tutorial No:- 2

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	Tutorial 2:- To understand state Space problem
	fornulation
	Ain: - To understand State space based problem
adian som m	Pornulation of AI problems so that problem
	solving Agent can be applied
	Theory: - first we understand the problem solving agent.
	Algorithu shows in figure 3 shows agent program
	for program problem solving agent. Agent first
	formulates goal and problem, then determines
	orrather searches an action sequence.
	Punction Simple-Problem-solving-Agent return an action
and Manageria Co.	8 festic: seq. an action sequence, initially empty
	state, some description of current would state
	goal, agoal initially null
	problem, a problem Formulation
•	
2)	State & Update-state (state, percept)
	if seg is empty then do
	goal & formulate-Goal (state)
	problem & formulatio -problem (state, goal)
	Seg + search (problem)
	action « first (seg)
	8eg ← Rest (seg)
	return action
	Pig: - problem solving agent architecture

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	Defining the problem is referred to as problem
	Formulation . 1+ fouolues delining following live
	things:
	0.
	Initial State: It is the starting state that the
	Initial State: It is the Starting state that the
	Action 14 defines all possible actions available to the
	agent given it is in some state a currently it is
	Function Action ('s) that returns vist of all possible
	Octions Harding Medical II
, -	
	Transition Model also known as successor function
	which define which state sustanton to
	Move to when a particular action is executed by the
	orgen.
	Groal Test This act as a stopping condition whenthe State passed to this function is goal state it will
	state passed to this function is goal state it will
	roetern true
	Dat 1001 11 100 1 100
,	path cost It is accumulated cost of performing certain sequence of actions . This can help in determining coether the action sequence under consideration is optimal.
	trotte of action . This can help in determing
	orbital
	CPFIGE.

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		EKGCEKGCEKGCEKGC
	working: Based on understanding of prob tion Students need to formulate Follow	la h
	tion Students need to loculate to	olem formula
	TO FURNITURE FORM	Ding problems
	i) Mavigate to KGCE workshop From HOD IT Minimum number of moves, moves can	COBIA Wifa
	Or a lind him of hover, Moves can	be Climbing
	Oralighting Staircase	
	2) & Pilm to hall	
-	2) 8 PUZZIR PROBLEM	
)	9)7770	1
	B) The Missionaries and consider problem	. There are
	three Missionaries and three Carriba	ls who
	Must cross a river using boat which o	Can Carry
•	at MOST 4000 people under the constrain	int that
	For both banks, The boat carnot cross	the river
	by itself with no people on board	
		*
	4) N Queen's problem. Arrange N queens of N Chess board where no two queens	on a Mcrosr
	N Chess board where no two queens	attack
	each other	
/	·	
	5) Two room vacuus Cleaner world	
	6) Water Jug problem	

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