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## Tutorial No:-2

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	Tutorial 2:- To understand state Space problem
	formulation
Lancación Santario	
	Ain: - To understand State space based problem
	formulation of AI problems so that problem
	solving Agent can be applied
	Theory: - first we understoned the problem solving agent.
	Algorithm 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.
	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	Function Simple-Problem-solving-Agent return an action
	8 fatic: seq. an action sequence, initially empty
	State, some description of current world state
	goal, a goal initially null
	problem, a problem formulation
	FIGURE FIGURE FOR THE FIRST FOR FOR THE FIRST FOR FOR THE FIRST FOR THE FIRST FOR THE FIRST FOR THE FIRST FOR THE
	State & Update-State (Hate borront)
	if seg is empty then do
	goal & formulate-Goal (state)
	problem & formulatio - Problem (state, goal)
	Seg & search (problem)
	action « first (seg)
	8eq ← Rest (seq)
	return action
1	
	Pig: - problem solving agent architecture

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	Depining the problem is referred to as problem formulation. It found were defining following five
	formulation. It fouldes defining following live
	things:
	Initial Steele: It is the Starting Steele that the
	Initial Steele: It is the Starting Steele 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
	Oction । नाननीम भागतता ।
	Transition Model also known as successor function
	which define which state/s the system tend to
. 8	Move to when a particular action is executed by the agent.
	Grad Took This act as a class
	Goal Test This act as a stopping condition whenthe State passed to this function is goal state it will
	return true
	path cost It is accountilated and or marketing and
	path cost It is accumulated cost of performing certain sequence of actions . This can help in determing
	coether the oction sequence under consideration is
	optimal.

Karjat - Raigad

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working: Based on understanding of problem formula.

tion Students need to formulate following problems i) Mavigate to KGCE workshop From HOD IT cobin with Minimum number of moves, moves can be climbing Or alighting Staircase 2) 8 PUZZA PROBLEM s) The Missionaries and consider problem. There are three Missionaries and three Carribals who Must cross a river using boat which can carry at most 4000 people under the constraint 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 on a Mcross N Chess board Where no two queens attack each other 5) Two room vaceum Cleaner world 6) Water Jug problem