	Tatorial No!-0?	
	Tutorial Noi- 62	
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Tutorial No:-2

Jutomal Y:- To understand Steve Space problems

Aim? To understand State Space based problems
Formulation of Al problems So that problems
Solving Agent Can be applied.

Theory: First we understand the problems Solving
Agent Algorithm Shows In figure 3 shows agent

programs For problems solving agent.

Agent first formulates goal & problems then

describes or other Searches an action

Sequence.

Function simple - problems - Solving - Agent return action
Static : seq. an action Sequence, initially empty

State, Some description of Current world

Steele good a agood finitially new

problems. a problems Formulation

State & update - State (State, percept)

if Seqis empty thendo

good & Tormulate - Good (state)

problems & Formulate - Problems (State, good)

Seq & Search (problems)

action & First (seq)

seg & Rest (seg)

pooblem solving Agent Architectul.

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Setining the problems is referred to as problems Formulation, it involves defining following brethings

initial State: It is the Starting State that the problem is in.

Action it defines all possible actions available to the agent given it is in some State a currently. Itil function Action (s) that returns historial possible actions

Transition model also known as successor function which define which steves the system toud to Move to when a particular action is executed by eigent.

Croal Test this act as a Stopping (audition ohen the state passed to this function is goal state it will preture true

Path lost it is a commulated cost at pentorming certain sequence of actions. This can help identifying whether the action sequence under Consideration is optimal.

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Working Based on understanding of problems
someran an Student suged to town late
Following problems.

- Monigate to kerce workshop from MoDIT with Nivimum Number of moves, moves can be clinbing or alighting Staincase.
- 2) 8 puzzle problems.
- The Missionanies of countries problem. There are three Missionanies of three carribals who must cross a live using boot which can carry of most those people under the Constraint that for both banks. The boot cannot cross the sould by itself with no people an board.
- (voss rechers bound where no two queens on a
- 5) 700 room Vacuur cleaner World
- 6) waln Ing problem.