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Tutorial No:-2

Page No.:

Name: - Apeksha B Dhulanggion Roll no: 15 Sub: - IS LAB DOP DOC

| Karjat - | Raigad Date: |
|-----------------|--|
| KGCEKGCEKGCEKGC | Tutorial 2:- To understand state space problem formulation. Aim:- To understand state space based problem formulation of A I problems so that problems solving Agent can be applied |
| | Theory: - first we understand the problem solving agent Algorithm shows in figure 3 shows agent program for paroblem solving agent Agent first formalites goal and problem, then determinies or rather searches an action sequence |
| | function Simple - Problem - Solving - Agent retun action claric seq an action sequence initially empty state some description of current world state goal, a good initially null problem a publish formulation |
| | State < Update - state (state, percept) if seq is empty then do goal < formulate - (noal (state) problem < formulate - problem (state, goal) seq < search (problem) achien < first (seq) return action. |
| | return althon. |
| | |

Page No.: K.G.C.E. Date: Kariat - Raigad Working - Based on understanding of problem formulation students need to Formulate following problems. O Navigale to Klick workshop from MDD &I cabin with minimum number for moves, more can be diminishing or alighting staircase 8 Puzzle problem 3 The missionaries and cannibo publish. T are 3 missionaries and boar three cannibals who must cross a river using boat which can carry at most two people Under the constraint that for both banks. The boat cannot wass the river by itself with no people on board 9 N gueen's enoblem. Armange N queen on a Nouses N chess board on where hos queens 2 room vaceum cleaner would 6 Water Tag Rublem.