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1.2 Tutorials; To understand state space Problem Formulation. Aim! To underestand State Space based Problem formillato of AI problems so that problem Solving Agent can be Applied Theory: First we understand problem soking agent. Algorithm shown in above Figure shows agent program to 8 problem solving agent Agent First to smulates go at and prop blem then détermines or searches anact sequence. - not on the since of Function SIMPLE- PROBLEM-SOLVINGan annal solf GENT seturons antiaction static sequence, initially Wan at a comptytions a the to dailde 3 tate some description of cyssent world state on us begingers goal, a goal, initially null problem, a problem to roulation state & UPD ATE - STATE (State, Pexcept orto 117 sequiscempty thendoin 100001 & FORMULATE - GOALint problem & FORMULATE - PROBLEM (state good) sege Search (problem)

action Frest (seq) -seq & REST (seq) return action addard loss and arriver stutic bantonsina of darle the start of and that a point of mallors Defining problem is referred as to FUE + Bingsille out . Harris The morning of the property to thitial state: It is starting state that Actions 14 defines all prossible actions available to agent, givenitis in some state's currently. SAINTEN IN 2-MAIROAR - FLAMER FLAMER Mailton, ? Transition model: It is also known as - Month of Succelsor Function which defires which states system tend to move to when particular sect actionis executed by agentine him · Open ullotting, Inop A. Lou. Goal Test: This act as stopping condition when state passed to This Function is goal state it will seturn true of seasoning would stop. MILES AG - Transpassor s, misldon is Path Costi performing certain sequenceof

weather action sequence, under consideration is optimal. Thus a problem can formally specified at by identifying, Initial state actions. Il transition madel, goal test and both.

Working: Based on Understanding of problem formulath students need to tormulate state space up to depth level 3 or till goal node which ever is shollowest. 1- Novigate to KGCF workshop From HOD IT cabin with min number of moves, makes can be climbing staircase turning left, right.

2. Po & 8 puzzle problem.

3. Missionaries of cannibals Problem. There are 3 missionaries of 3 esticannibols who must cross river using boat which can carry atmost two people under constraint that, For to both banks. 4. N Queen's Problem. Arrange Nqueens on N cross N chess board where no 2 queens attack each other 5'. Two soom vacuum deanes wordt. 6. Nater Jug problem