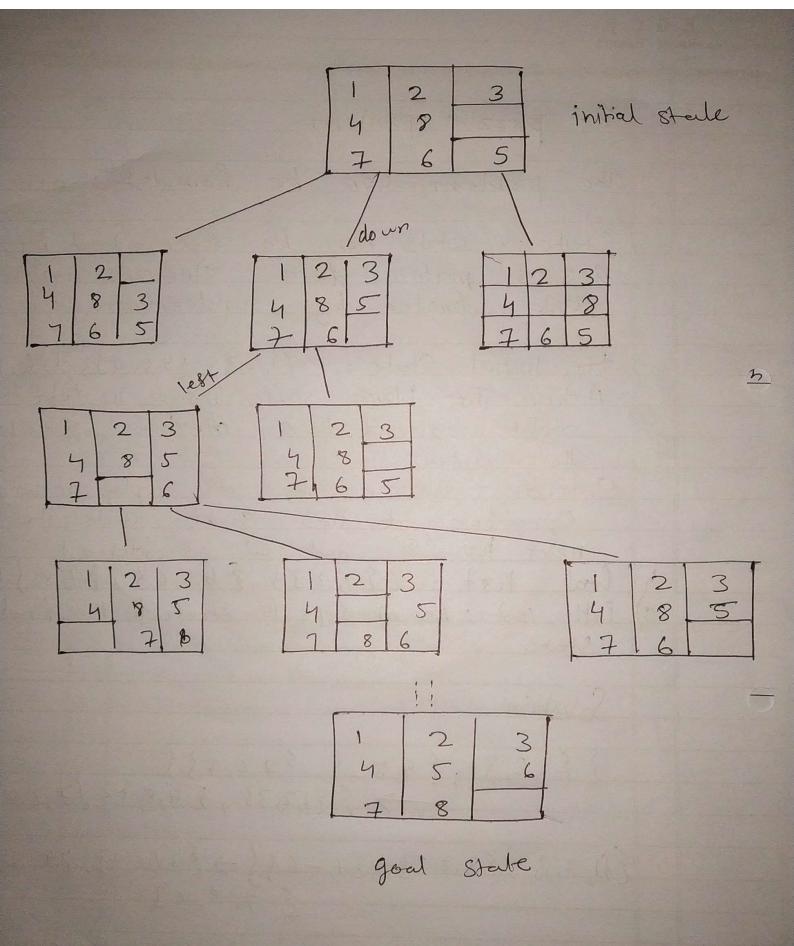
Transition Model also known as Successor Function which define which State s the system tend to move to when a particular achien is executed by the on model give rise to what is know ges State Space. Goal Test The state pussed to this function is god state - et will velvon tove & searching would stop. Path cost It is accomplated cost of personning certain sequence of achon. This Can help in determing whether the adion esquence under consideration is ophimal Thus a problem can formally specified by identifying initial states actions fransition model goal test and path cost Solution is the lowest path cost of all Solution. Process of funding a Solution is called Search

Based on understading of problem. Tormulation student need to sormulate Tollowing problem They will clearly Show state space up to depth level 3 ar fill god node which ever is shallowest. 1. Navigete to KCICE Workshop Som HOD IT Cation with minimum number of moves moves can be climbing or alighting staircase torning left right, walking through a corridor. 2. 8 Puzzle problem. 3. The missionaries and Cannibals problem There are three missionaries and three cannibals who must cross a river using a boat which can carry at most two geogle under the constraint that the boat cannot cooss the over by itself with no people on board N Queen's Broblem Arrange N queen on a N cross N ches board when no hos queen attack Each other 5. Two room vacuum cleaner world 6. Water July Problem Resources. Refer to Second Chapter Som A.T. A Mordern approach.



Q.2 Navigate to Kare workshop Jam Hoo IT cabin with minimum number of moves, moves can be climbing a
Alighting starr cause, twoining left, night
healicing - though a corridor States: It can be represented as a top view of the agent along with anows in direction left, right to forward & budward, He use Climb and alright for moving though stairclose Initial state exist > corridor Hop II
Cabin
Agent

