Min Max Algorithm K.G.C.E. Karjat - Raigad Page No.: Date: Name !- Shweta. G. Bhoir Clays: -BE/IT Roll No!- 09 Sub! - IS LAB DOC Remark

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Min-Max Algorithm!
alosition real to recursive or backtracking
algorithm which is used in deploy making a
algorithm which is used in decision-making and game theory. It provides an optimal move for the player assuming that opponent is also playing optimally.
the player assuming that apparent is nove tor
optimally.
- Min- Max oxlgorithm the uses recursion to search
through it regretion to search
1) this algerian
- Min - MAX alogethm on made of called MIN.
- Min - MAX algorithm or mostly used for game
Daving to Al Qual as a rossery used too game
toe. This provide as thess, theckers, tic-tac-
phyling in Al. Such as Chess, Checkers, tic-tac- toe. This Algorithm Computes the minimax decision for the Current Mate
dension for the current state.
Stepli-In the first step, the algorithm generates the entire game-tree and apply the utility function to get the utility values for
the entire game-tree and apply the utility
States. In the below tree eigerithm, let's take A ?
the initial other of 11 15 take A 13
take first his notified the suppose maximizer
1 1 1 1 1 1 1 1 1 1
- THINH VILLE = THINH and noise in the
take next tuen which has west - case initial
value = + infinity.

Page No.: K.G.C.E. Karjat - Raigad Date Node A -> MAX Nocle B -> Min -> Temmal nocle Step 21- Now first we find the utilities value to. the maximize, its initial value 95-00, so we will compare each value in terminal state with initial value of maximizes and determines the higher nodes values . It will that the Maximum among the all. for node 0 max (3,-13)=13 - For node & max (5, -00)=) max (5,15 For node f max (16, -00) => max (16, 8)= \$8 for node & max (12, -0)=) max (12, 3)=12

K.G.C.E. Karjat - Raigad Page No.: Date: Node A MAX \mathcal{B} - Min Terminal node. Step 3:- In the next step its minimizes B= min

K.G.C.E. Page No. : Karjat - Raigad Date : Nocle A NEX - Nin MAX Terminal node. Step 41, - Now its a turn for maximizer the maximum root layers, hence we the root node but in real more than - For node A maxi

K.G.C.E. Karjat - Raigad Page No.: Date: Node A Max B 8 Min G Max 12 Terminal node