Mini-Flax Algorithm (module 2)

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## Mini-max Algorithm (module-3)

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## Mini-Max Algorithm (module 3)

\* Mini-Max algorithm

- Mini-max algorithm is a recursive or backtracking 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
  - Mini-max algorithm uses recursion to search through the game-tree
  - In this algorithm two players play the game, one is call MAX and other is called MIN.
  - Min-Max algorithm is mostly used for game playing in Al. Such as choss, Checkers, fic-tac-toe. This Algorithm computes the minimax decision for the current state.

Step 1: In the first step, the algorithm generates
The entire game-tree and apply the utility Function
to get the utility values for the terminal Stades
In the below tree diagram, let's take A is the
initial State of the tree. Suppose maximizer
takes first turn which has worst-case initial
value =-infinity, and minimizer will take next
turn which has worst-case initial value - +Infinity







