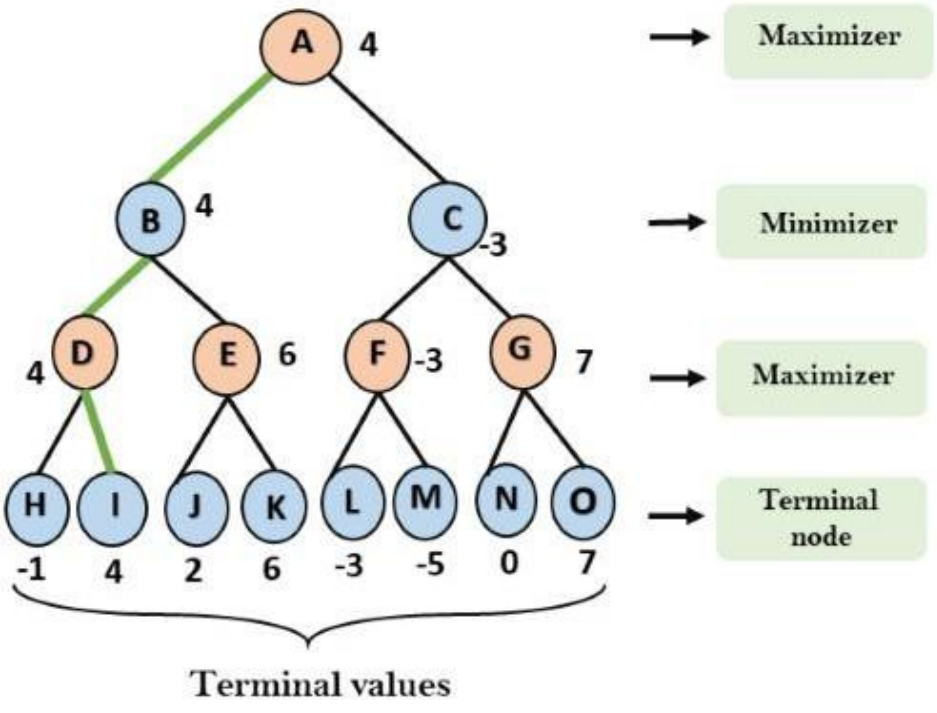
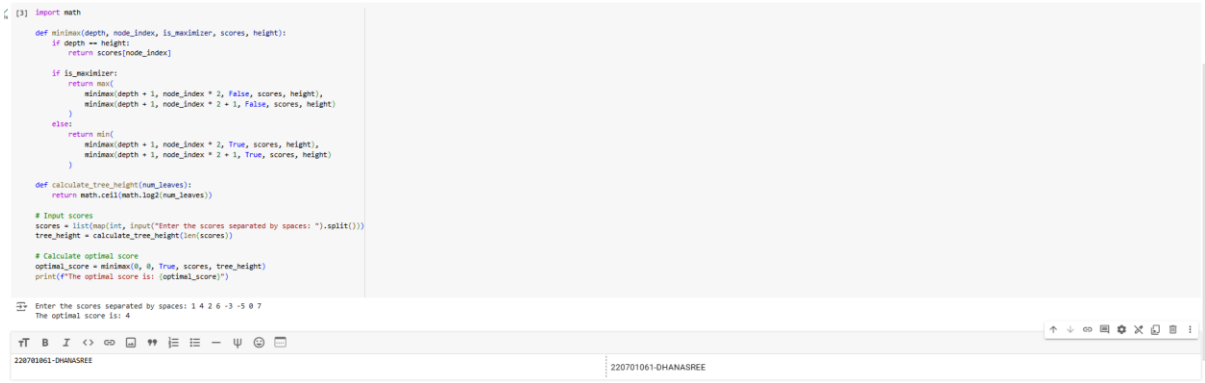
EX.NO:04 **DATE:**

Reg.no:220701061

MINIMAX ALGORITHM

- A simple example can be used to explain how the minimax algorithm works. We've included an example of a game-tree below, which represents a two-player game.
- There are two players in this scenario, one named Maximizer and the other named Minimizer.
- Maximizer will strive for the highest possible score, while Minimizer will strive for the lowest possible score.
- Because this algorithm uses DFS, we must go all the way through the leaves to reach the terminal nodes in this game-tree.
- The terminal values are given at the terminal node, so we'll compare them and retrace the tree till we reach the original state.





OUTPUT:

Enter the scores separated by spaces: -1 4 2 6 -3 -5 0 7 The optimal score is: 4

RESULT:

Thus ,the Minimax Algorithm successfully determines the optimal moves for both players by evaluating the game-tree and selecting the best possible scores for Maximizer and Minimizer.