Experiment-13: Min-Max Algorithm

Aim: To Print a Python Program to implement Min-Max algorithm. Program: import math def minimax (curDepth, nodeIndex, maxTurn, scores, targetDepth): if (curDepth == targetDepth): return scores[nodeIndex] if (maxTurn): return max(minimax(curDepth + 1, nodeIndex * 2, False, scores, targetDepth), minimax(curDepth + 1, nodeIndex * 2 + 1, False, scores, targetDepth)) else: return min(minimax(curDepth + 1, nodeIndex * 2, True, scores, targetDepth), minimax(curDepth + 1, nodeIndex * 2 + 1, True, scores, targetDepth)) scores = [3, 5, 2, 9, 12, 5, 23, 23]treeDepth = math.log(len(scores), 2) print("The optimal value is: ", end = "") print(minimax(0, 0, True, scores, treeDepth))

Output:
The optimal value is : 12
Result:
The Code has been implemented Successfully.