```
1 import math
3
    class Node:
4
        def __init__(self, value=None):
 5
             self.value = value
            self.children = []
6
7
8
    def minimax(node, depth, maximizing_player):
        if depth == 0 or not node.children:
9
10
             return node.value
11
12
        if maximizing_player:
13
            max_eval = -math.inf
            for child in node.children:
14
15
                 eval = minimax(child, depth - 1, False)
                 max_eval = max(max_eval, eval)
16
17
            return max_eval
18
        else:
19
            min eval = math.inf
20
             for child in node.children:
21
                 eval = minimax(child, depth - 1, True)
                 min_eval = min(min_eval, eval)
22
23
             return min_eval
24
25
    def alpha_beta_pruning(node, depth, alpha, beta, maximizing_player):
         if depth == 0 or not node.children:
26
            return node.value
27
28
29
         if maximizing_player:
30
            max_eval = -math.inf
31
             for child in node.children:
                 eval = alpha_beta_pruning(child, depth - 1, alpha, beta, False)
32
33
                 max_eval = max(max_eval, eval)
34
                 alpha = max(alpha, eval)
                 if beta <= alpha:
35
36
                    break
37
            return max_eval
38
        else:
            min_eval = math.inf
39
            for child in node.children:
40
41
                 eval = alpha_beta_pruning(child, depth - 1, alpha, beta, True)
42
                 min eval = min(min eval, eval)
43
                 beta = min(beta, eval)
44
                 if beta <= alpha:</pre>
45
                    break
46
            return min_eval
47
48
    # Example usage
    if __name__ == "__main__":
49
50
        root = Node()
51
         root.children = [Node(3), Node(6), Node(8)]
         root.children[0].children = [Node(4), Node(2)]
52
53
        root.children[1].children = [Node(9), Node(1)]
54
         root.children[2].children = [Node(5), Node(7)]
55
56
         print("Minimax result:", minimax(root, 2, True))
57
         print("Alpha-Beta Pruning result:", alpha_beta_pruning(root, 2, -math.inf, math.inf, True))
58
```

Minimax result: 5 Alpha-Beta Pruning result: 5