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

Minimax result: 5

Alpha-Beta Pruning result: 5 2/2