```
Code:
dict = {'00':'A', '10':'B', '20':'D', '21':'E', '11':'C', '22':'F', '23':'G'}
MAX, MIN = 1000, -1000
def minimax(depth, nodeIndex, maximizingPlayer,
      values, alpha, beta):
  if depth == 3:
    return values[nodeIndex]
  if maximizingPlayer:
    best = MIN
    for i in range(0, 2):
      print("Node : ",dict.get(str(depth)+str(nodeIndex))," Values -- alpha : ",alpha,"beta :
",beta)
      val = minimax(depth + 1, nodeIndex * 2 + i,
               False, values, alpha, beta)
      best = max(best, val)
      alpha = max(alpha, best)
      print("Node : ",dict.get(str(depth)+str(nodeIndex))," Values -- alpha : ",alpha,"beta :
",beta)
      # Alpha Beta Pruning
      if beta <= alpha:
         break
    return best
  else:
    best = MAX
    for i in range(0, 2):
      print("Node : ",dict.get(str(depth)+str(nodeIndex))," Values -- alpha : ",alpha,"beta :
",beta)
      val = minimax(depth + 1, nodeIndex * 2 + i,
                True, values, alpha, beta)
      best = min(best, val)
```

```
beta = min(beta, best)
    print("Node : ",dict.get(str(depth)+str(nodeIndex))," Values -- alpha : ",alpha,"beta :
",beta)

# Alpha Beta Pruning
    if beta <= alpha:
        break

return best

if __name__ == "__main__":

values = [2,3,5,9,0,1,7,5]
    graph = {
        'A' : ['B','C'], 'B' : ['D','E'], 'C' : ['F','G'], 'D' : [2,3], 'E' : [5,9], 'F' : [0,1], 'G' : [7,5]
    }
    print("The optimal value is :", minimax(0, 0, True, values, MIN, MAX))</pre>
```

OUTPUT: