14. Write the python program to implement Alpha & Beta pruning algorithm for gaming. Programing:

```
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):
                      val = minimax(depth + 1, nodeIndex * 2 + i,
                                             False, values, alpha, beta)
                      best = max(best, val)
                      alpha = max(alpha, best)
                      if beta <= alpha:
                             break
              return best
       else:
              best = MAX
              for i in range(0, 2):
                      val = minimax(depth + 1, nodeIndex * 2 + i,
                                                    True, values, alpha, beta)
                      best = min(best, val)
                      beta = min(beta, best)
                      if beta <= alpha:
                              break
              return best
if __name__ == "__main__":
       values = [3, 5, 6, 9, 1, 2, 0, -1]
```

print("The optimal value is :", minimax(0, 0, True, values, MIN, MAX))

OUTPUT:

