**PROGRAM**

N **=** 4

# Finds transpose of A[][] in-place

**def** transpose(A):

**for** i **in** range(N):

**for** j **in** range(i**+**1, N):

   A[i][j], A[j][i] **=** A[j][i], A[i][j]

A **=** [ [1, 1, 1, 1],

 [2, 2, 2, 2],

 [3, 3, 3, 3],

 [4, 4, 4, 4]]

transpose(A)

print("Modified matrix is")

**for** i **in** range(N):

**for** j **in** range(N):

**print**(A[i][j], " ", end**=**'')

**print**()

**OUTPUT**

