

## TRANSPOSE

### **Transpose ():**

**Description:** Here **A** is a two – dimensional array with **M** rows and **N** columns. This algorithm transposes the array.

1. Repeat For I = 1 to M
2.       Repeat For J = 1 to N
3.               Set  $B[J][I] = A[I][J]$   
                  [End of Step 2 For Loop]  
                  [End of Step 1 For Loop]
4. Exit

**Explanation:** The first for loop iterates from 1 to M i.e. total number of rows and second for loop iterates from 1 to N i.e. total number of columns. In step 3, the element at location  $A[I][J]$  is assigned to  $B[J][I]$  by the statement  $B[J][I] = A[I][J]$ .