

```
R = int(input("Enter the number of rows:"))
C = int(input("Enter the number of columns:"))

# Initialize matrix
A = []
print("Enter the entries rowwise:")

# For user input
for i in range(R):           # A for loop for row entries
    a = []
    for j in range(C):       # A for loop for column entries
        a.append(int(input()))
    A.append(a)

# For printing the matrix 2
for i in range(R):
    for j in range(C):
        print(A[i][j], end = " ")
    print()
```

↳ Enter the number of rows:2
Enter the number of columns:2
Enter the entries rowwise:
1
2
3
4
1 2
3 4

```
def transpose(A):
    for i in range(R):
        for j in range(i+1, C):
            A[i][j], A[j][i] = A[j][i], A[i][j]
```

```
# To store result
B = [[0 for x in range(R)] for y in range(C)]
print("Before Transpose")
for i in range(R):
    for j in range(C):
        print(A[i][j], end = " ")
    print()
transpose(A)
print("After Transpose")
```

```
for i in range(R):
    for j in range(C):
        print(A[i][j], end = " ")
    print()
```

Before Transpose

1 2

3 4

After Transpose

1 3

2 4