Testcase 1:

```
--------Enter--------
0 to Exit
1 for matrix addition
2 for matrix substraction
3 for matrix multiplication
4 to find transpose of matrix
Enter here: 1
Enter number of rows for matrix : 2
Enter number of columns for matrix: 2
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 0
Enter element at index ( 0 ,  1 ) : 0
Enter element at index ( 1 ,  0 ) : 0
Enter element at index ( 1 ,  1 ) : 0
Enter number of rows for matrix : 2
Enter number of columns for matrix: 2
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 0
Enter element at index ( 0 ,  1 ) : 0
Enter element at index ( 1 ,  0 ) : 0
Enter element at index ( 1 ,  1 ) : 0

First matrix is :
0       0
0       0

Second Matrix is :
0       0
0       0

The addition of matrices is :
0       0
0       0
```

Testcase 2:

```
--------Enter--------
0 to Exit
1 for matrix addition
2 for matrix substraction
3 for matrix multiplication
4 to find transpose of matrix
Enter here: 1
Enter number of rows for matrix : 3
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 1
Enter element at index ( 0 ,  1 ) : 2
Enter element at index ( 0 ,  2 ) : 3
Enter element at index ( 1 ,  0 ) : 4
Enter element at index ( 1 ,  1 ) : 5
Enter element at index ( 1 ,  2 ) : 6
Enter element at index ( 2 ,  0 ) : 7
Enter element at index ( 2 ,  1 ) : 8
Enter element at index ( 2 ,  2 ) : 9
Enter number of rows for matrix : 2
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 1
Enter element at index ( 0 ,  1 ) : 2
Enter element at index ( 0 ,  2 ) : 3
Enter element at index ( 1 ,  0 ) : 4
Enter element at index ( 1 ,  1 ) : 5
Enter element at index ( 1 ,  2 ) : 6

First matrix is :
1       2       3
4       5       6
7       8       9

Second Matrix is :
1       2       3
4       5       6

The ADDITION of matrices is NOT POSSIBLE.
```

Testcase 3:

```
--------Enter--------
0 to Exit
1 for matrix addition
2 for matrix substraction
3 for matrix multiplication
4 to find transpose of matrix
Enter here: 1
Enter number of rows for matrix : 2
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : -1
Enter element at index ( 0 ,  1 ) : 2
Enter element at index ( 0 ,  2 ) : 3
Enter element at index ( 1 ,  0 ) : -4
Enter element at index ( 1 ,  1 ) : 5
Enter element at index ( 1 ,  2 ) : -6
Enter number of rows for matrix : 2
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 4
Enter element at index ( 0 ,  1 ) : 5
Enter element at index ( 0 ,  2 ) : -6
Enter element at index ( 1 ,  0 ) : 1
Enter element at index ( 1 ,  1 ) : 2
Enter element at index ( 1 ,  2 ) : -3

First matrix is :
-1      2       3
-4      5       -6

Second Matrix is :
4       5       -6
1       2       -3

The addition of matrices is :
3       7       -3
-3      7       -9

--------Enter--------
```

Testcase 4:

```
--------Enter--------
0 to Exit
1 for matrix addition
2 for matrix substraction
3 for matrix multiplication
4 to find transpose of matrix
Enter here: 4
Enter number of rows for matrix : 3
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 0
Enter element at index ( 0 ,  1 ) : 0
Enter element at index ( 0 ,  2 ) : 0
Enter element at index ( 1 ,  0 ) : 0
Enter element at index ( 1 ,  1 ) : 0
Enter element at index ( 1 ,  2 ) : 0
Enter element at index ( 2 ,  0 ) : 0
Enter element at index ( 2 ,  1 ) : 0
Enter element at index ( 2 ,  2 ) : 0

Given matrix is :
0       0       0
0       0       0
0       0       0

Transpose of given matrix is :
0       0       0
0       0       0
0       0       0
```

Testcase 5:

```
--------Enter--------
0 to Exit
1 for matrix addition
2 for matrix substraction
3 for matrix multiplication
4 to find transpose of matrix
Enter here: 4
Enter number of rows for matrix : 3
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 1
Enter element at index ( 0 ,  1 ) : 0
Enter element at index ( 0 ,  2 ) : 0
Enter element at index ( 1 ,  0 ) : 0
Enter element at index ( 1 ,  1 ) : 2
Enter element at index ( 1 ,  2 ) : 0
Enter element at index ( 2 ,  0 ) : 0
Enter element at index ( 2 ,  1 ) : 0
Enter element at index ( 2 ,  2 ) : 3

Given matrix is :
1       0       0
0       2       0
0       0       3

Transpose of given matrix is :
1       0       0
0       2       0
0       0       3
```

Testcase 6:

```
--------Enter--------
0 to Exit
1 for matrix addition
2 for matrix substraction
3 for matrix multiplication
4 to find transpose of matrix
Enter here: 4
Enter number of rows for matrix : 2
Enter number of columns for matrix: 3
Enter Elements for matrix:
Enter element at index ( 0 ,  0 ) : 1
Enter element at index ( 0 ,  1 ) : 2
Enter element at index ( 0 ,  2 ) : 3
Enter element at index ( 1 ,  0 ) : 4
Enter element at index ( 1 ,  1 ) : 5
Enter element at index ( 1 ,  2 ) : 6

Given matrix is :
1       2       3
4       5       6

Transpose of given matrix is :
1       4
2       5
3       6
```

Testcase 7:

```
First matrix is :
0       0       0
0       0       0
0       0       0

Second Matrix is :
1       2       3
4       5       6
7       8       9

The product of matrices is :
0       0       0
0       0       0
0       0       0
```

Testcase 8:

```
First matrix is :
1       2
3       4

Second Matrix is :
1       2
3       4
5       6

The MULTIPLICATION of matrices is NOT POSSIBLE.
```

Testcase 9:

```
First matrix is :
1       2       3
4       5       6

Second Matrix is :
1       2
3       4
5       6

The product of matrices is :
22      28
49      64
```