

```
1 #include <stdio.h>
2 #define MAX_ROWS 3
3 #define MAX_COLS 3
4 int main()
5 {
6     int array[MAX_ROWS][MAX_COLS];
7     int row, col, isLower;
8     printf("Enter elements in matrix of size %dx%d: \n", MAX_ROWS,
9           MAX_COLS);
10    for (row = 0; row < MAX_ROWS; row++)
11    {
12        for (col = 0; col < MAX_COLS; col++)
13        {
14            scanf("%d", &array[row][col]);
15        }
16    }
17
18    isLower = 1;
19    for (row = 0; row < MAX_ROWS; row++)
20    {
21        for (col = 0; col < MAX_COLS; col++)
22        {
23            if (col > row && array[row][col] != 0)
24            {
25                isLower = 0;
26            }
27        }
28    }
29    if (isLower == 1)
30    {
31        printf("\nThe matrix is Lower triangular matrix.\n");
32    }
33    else
34    {
35        printf("\nThe matrix is not Lower triangular matrix.");
36    }
37    return 0;
38 }
```

```
PS D:\Manan Work\Programs in C language> cd "d:\Manan Work\Programs in C language\" ; if ($?) { gcc 61.For_Lower_Triangular_Matrix.c -o 61.For_Lower_Triangular_Matrix.exe } ; if ($?) { .\61.For_Lower_Triangular_Matrix.exe }
Enter elements in matrix of size 3x3:
0
0
0
0
0
0
0
0
0

The matrix is not lower triangular matrix.
PS D:\Manan Work\Programs in C language>
```