Algorithm for Matrix Factorization by Using Doolittle LU Decomposition

1. Start
2. Read the Dimension of the Matrix, say it be n.
3. Read the elements of the matrix row-wise.
4. Assign the values of first row of U matrix as below.

**;**

1. Assign values to first row of L matrix as below.

;

1. Compute and assign values to first column of L matrix as below.

**;**

1. Compute and assign values to to rows of L and U matrix as below.

end for

1. Display L and M matrix.
2. Terminate.