Assignment-3

Problem-1: Write a computer program for Cholesky's decomposition to the symmetric matrix
$$A = \begin{bmatrix} 4 & 3 & 2 & 1 \\ 3 & 3 & 2 & 1 \\ 2 & 2 & 2 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}$$
. You have to show that $A = \mathcal{LL}^T$, where \mathcal{L} is a lower triangular matrix.