1.Define an m x n matrix of zeros and then enters a nested-for loop to fill thelocations of the matrix, only if the two indexes differ.

• The purpose is to create a lower triangular matrix, that is a matrix whoseelements below the main diagonal are non-zero, the others are leftuntouched to their initialized zero value.

• When the indexes are equal (if condition in the inner loop, which runs overj, the column index), a break is executed and the innermost loop isinterrupted with a direct jump to the instruction following the inner loop,which is a print; then control gets to the outer for condition (over therows, index i), which is evaluated again.

• If the indexes differ, the assignment is performed and the counter isincremented by 1.

• At the end, the program prints the counter ctr, which contains the#number of elements that were assigned.

Not Discussed in Class.