**Exercise:**  
Write a Java program using nested for loops to generate and print a multiplication table from 1 to 10. Each row should display the products of a specific number (from 1 to 10) multiplied by all numbers from 1 to 10.

**Hint:**

1. Use an outer for loop to iterate over numbers 1 through 10 (representing rows).
2. Inside the outer loop, use an inner for loop to iterate over numbers 1 through 10 (representing columns).
3. In each iteration of the inner loop, multiply the outer loop variable by the inner loop variable.
4. Use System.out.print with \t (tab) to format the products in columns.
5. Use System.out.println at the end of the inner loop to move to the next line, creating rows for each number.

**Explanation:**  
This program creates a 10x10 multiplication table:

* The outer loop variable i represents the current row, iterating from 1 to 10.
* The inner loop variable j represents the current column, also iterating from 1 to 10.
* For each combination of i and j, the product i \* j is printed, followed by a tab (\t) for spacing.
* After each row is complete, System.out.println() moves the output to a new line.
* The nested loop structure allows for a clear, grid-like display of multiplication results, forming a classic multiplication table.