Question: Write a program that generates a multiplication table for a given number using a for loop.

Instructions:

Create a JavaScript function called "multiplicationTable" that takes a single argument "num" (an integer) as input.

Inside the function, create a for loop that iterates from 1 to 10.

Inside the loop, multiply the current iteration number by the input "num" to generate the product.

Log the product to the console in the format "num x iteration = product".

Test the function with different input numbers to generate multiplication tables.

Solution:

```javascript
1  /**
2   * Write a program that generates a multiplication table for a given number using a for loop.
3   */
4
5  function multiplicationTable(num) {
6      for (let iteration = 1; iteration <= 10; iteration++) {
7          let product = iteration * num;
8          //Log the product to the console in the format "num x iteration = product"
9          console.log(`${num} X ${iteration} = ${product} `);
10     }
11 }
12 multiplicationTable(3);
13
```