Multiplication Table Assignment

Overview

Create a multiplication table function that uses nested for loops to print a multiplication table.

Requirements

Function Structure

Your multiplication_table function should:

- 1. **Take a parameter n** for the table size (1 to n)
- 2. Use nested for loops to generate the table
- 3. **Print each multiplication** in the format "a x b = c"
- 4. Print one multiplication per line
- 5. Use print() to display the table

Expected Behavior

Example Usage

```
def multiplication_table(n):
    # Your implementation here
    pass

# When called with multiplication_table(3), it should print:
# 1 x 1 = 1
# 1 x 2 = 2
# 1 x 3 = 3
# 2 x 1 = 2
# 2 x 2 = 4
# 2 x 3 = 6
# 3 x 1 = 3
# 3 x 2 = 6
# 3 x 3 = 9
```

Test Cases

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Your implementation should pass all the following test cases:

- 1. 1 to 5 table: Complete 5x5 multiplication table
- 2. 1 to 3 table: Complete 3x3 multiplication table
- 3. 1 to 10 table: Complete 10x10 multiplication table
- 4. Nested loops: Function uses nested for loop structure
- 5. Single number: Handles table size of 1

Implementation Tips

- Use two nested for loops (outer and inner)
- Outer loop: 1 to n (inclusive)
- Inner loop: 1 to n (inclusive)
- Print each multiplication as "a x b = c"
- Use print() function to display results
- Make sure to include all combinations