Al Assisted Coding - Lab Test 1

Q2. Multi-Stage AI Prompting (5M)

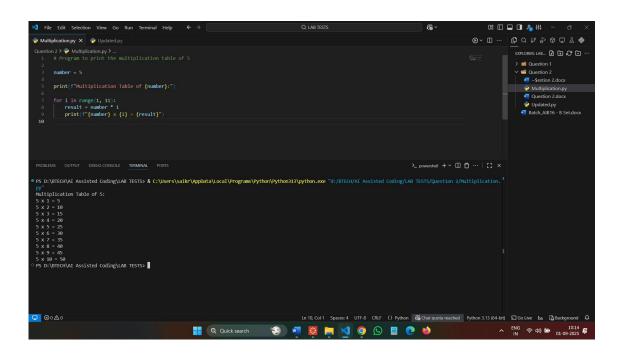
Prompt 1:

Write a Python program that prints the multiplication table of 5

Code 1:

```
# Program to print the multiplication table of 5
number = 5
print(f"Multiplication Table of {number}:")
for i in range(1, 11):
    result = number * i
    print(f"{number} x {i} = {result}")
```

Output 1:



Prompt 2:

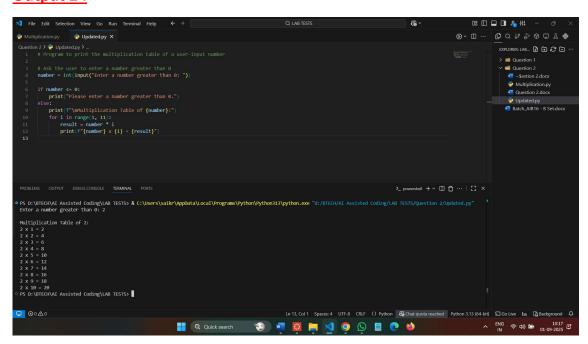
Take the previous prompt and ask the user to enter any number greater than 0 and give the multiplication table according to the input

Code 2:

Program to print the multiplication table of a user-input number

```
# Ask the user to enter a number greater than 0
number = int(input("Enter a number greater than 0: "))
if number <= 0:
    print("Please enter a number greater than 0.")
else:
    print(f"\nMultiplication Table of {number}:")
    for i in range(1, 11):
        result = number * i
        print(f"{number} x {i} = {result}")</pre>
```

Output 2:



Observation:

The program asks the user to enter a number greater than 0 and prints its multiplication table from 1 to 10. It validates the input to ensure it is positive and uses a for loop to generate the table dynamically. The results are displayed in a clear number x i = result format. Overall, the code is simple, readable, and easy to modify for different numbers or ranges.