### \*\*\*TaskDescription 2:

>>Use a copilot to generate a is\_prime() python function.

#### **Expected Output:**

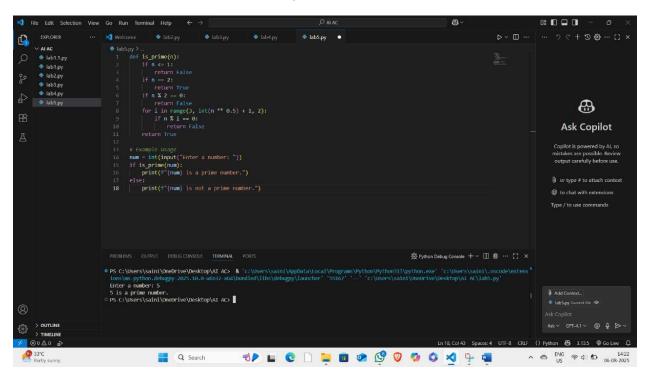
>>Function to check primality with correct logic.

### **Prompt:**

>>Write a python code to check whether a number is prime or not

#### **Observation:**

>>The code checks if a number is divisible by any number from 2 to  $\sqrt{n}$ . If no such divisor is found, the number is prime; otherwise, it is not.



## \*\*\*TaskDescription3:

>>Write a comment like # function to reverse a string and use copilot to generate the function.

## **Expected output:**

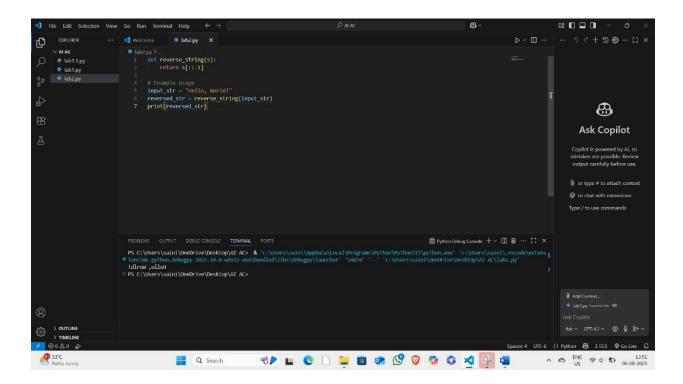
>>Auto-completed Reverse Function.

#### **Prompt:**

>>Write a python code to reverse a string by using python functions.

#### Observation:

>>The function uses Python's slicing feature to reverse the string efficiently. It returns a new string with characters in reverse order from the original.



## \*\*\*TaskDescription4:

>>Generate Both Recursive and Iterative Version of a Factorial Using Comments.

## **Expected output:**

>>Two Working Factorial Implementation

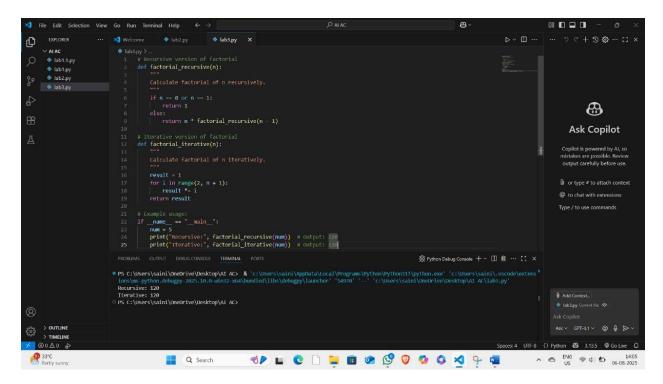
### **Prompt:**

>>Generate Both Recursive and Iterative Version of a Factorial Using Comments by using python program.

#### Observation:

>>The recursive version uses function calls to break the problem down into smaller subproblems.

The iterative version uses a loop for better space efficiency and avoids call stack overhead.



# \*\*\*TaskDescription 5:

>>Use copilot to find the largest number in a list. Assess code quality and efficiency.

# **Expected output:**

>> A valid function with your review.

## **Prompt:**

>> Write a python code to find the largest number in a list and assess code quality and efficiency.

#### **Observation:**

>>The recursive version uses function calls to break the problem down into smaller subproblems.

The iterative version uses a loop for better space efficiency and avoids call stack overhead.

