

AI ASSISTED CODING – 1

NAME : S RUCHITHA

HALLTICKET.NO : 2403A52316

BATCH.NO : 01

YEAR AND SEM : 2ND AND 3RD

>>use copilot to generate a is_prime() python function

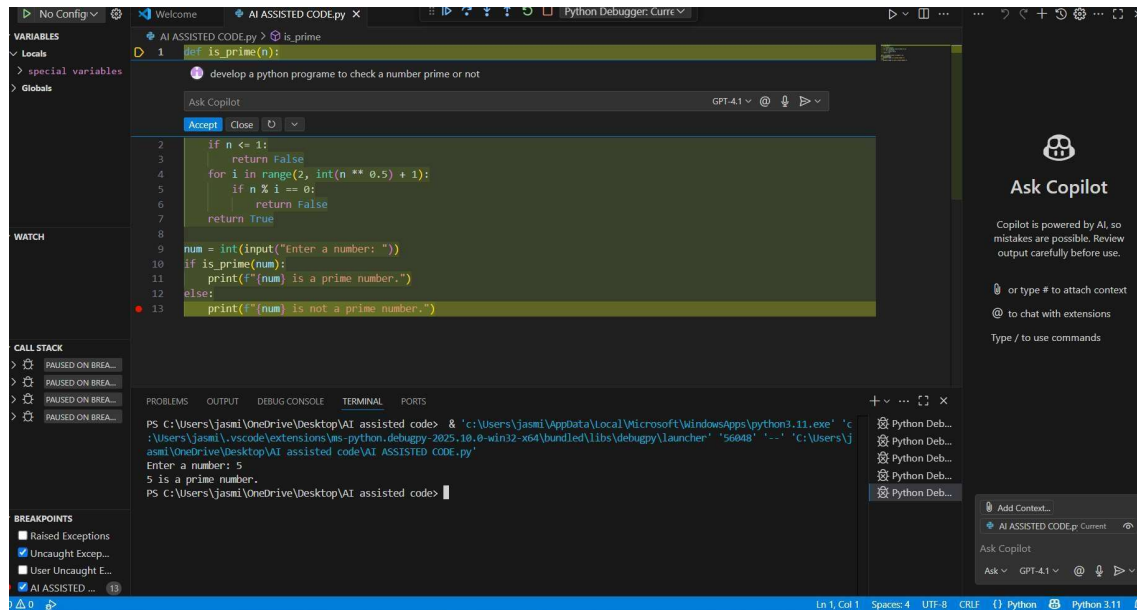
Task Description#2

Expected output#2

>>function to check primality with correct input

PROMPT:

>>Develop a python program to check a number prime or not



```
def is_prime(n):
    if n <= 1:
        return False
    for i in range(2, int(n ** 0.5) + 1):
        if n % i == 0:
            return False
    return True

num = int(input("Enter a number: "))
if is_prime(num):
    print(f"{num} is a prime number.")
else:
    print(f"{num} is not a prime number.")
```

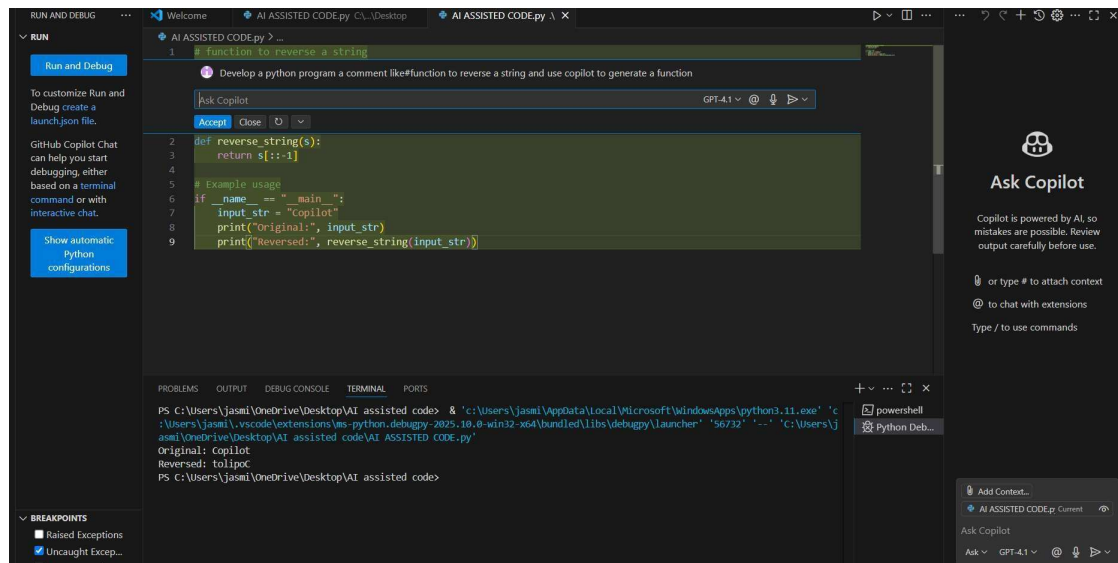
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code> & 'c:\Users\jasmi\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\jasmi\vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '56048' '--' 'C:\Users\jasmi\OneDrive\Desktop\AI assisted code\AI ASSISTED CODE.py'

Enter a number: 5
5 is a prime number.
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code>

>>write a comment like#function to reverse a string and use
copilot to generate a function Expected output#3 auto completed
function PROMPT:

Task Description#3

Develop a python code to generate a comment like#function to reverse a string



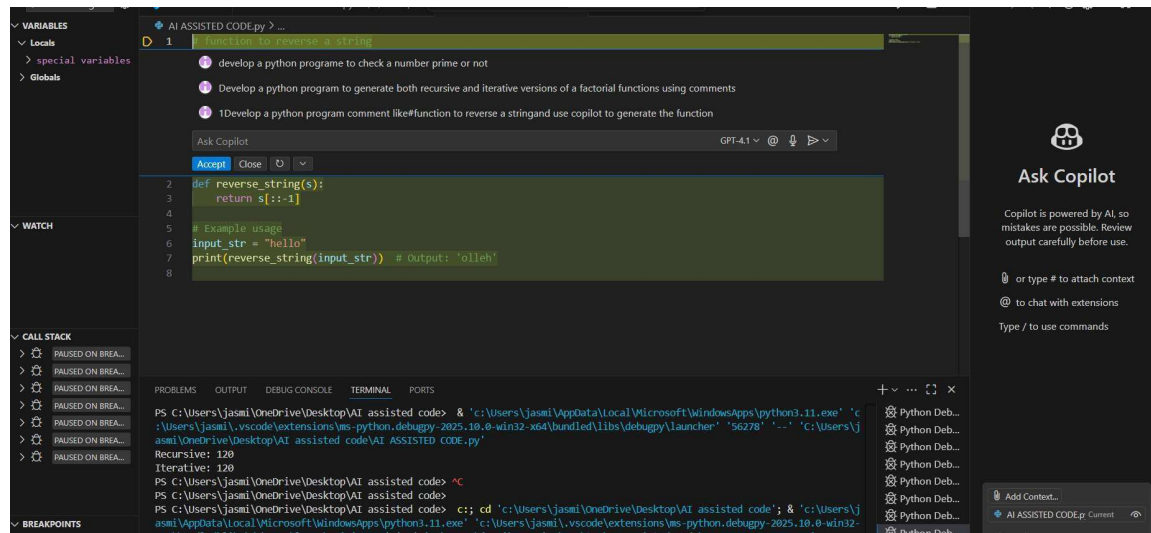
>>Generate both recursive and iterative versions of a factorial functions using comments

Expected output#4

>>two working factorial implementation PROMPT:

develop a python program to generate both recursive and iterative versions of a factorial functions using functions

Task Description#4



>>use copilot to find the largest number in a list

assess code quality and efficiency Expected output#5

a valid function with your review PROMPT:

>>Develop a python program to find largest number in a list
assess code quality and efficiency

Task Description#5

The screenshot displays the Visual Studio Code editor with the 'AI ASSISTED CODE.py' file open. The editor shows a Python function `find_largest_number` that takes a list of numbers and returns the largest one. The function includes a check for an empty list and a loop to find the maximum value. Below the function, an example usage is provided: `sample_list = [3, 7, 2, 9, 4]` and `print("Largest number:", find_largest_number(sample_list))`.

The terminal window at the bottom shows the execution of the program. It displays the command to run the Python file and the output: `Largest number: 9`.

The right sidebar features the 'Ask Copilot' panel, which provides instructions on how to use the AI assistant, including attaching context and using commands.

```
def find_largest_number(numbers):
    if not numbers:
        raise ValueError("List is empty")
    largest = numbers[0]
    for num in numbers[1:]:
        if num > largest:
            largest = num
    return largest

# Example usage
sample_list = [3, 7, 2, 9, 4]
print("Largest number:", find_largest_number(sample_list))
```

```
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code> & 'c:\Users\jasmi\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\jasmi\vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '56732' '-.' 'C:\Users\jasmi\OneDrive\Desktop\AI assisted code\AI ASSISTED CODE.py'
Original: Copilot
Reversed: toliPoC
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code> ^C
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code>
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code> cd 'c:\Users\jasmi\OneDrive\Desktop\AI assisted code'; & 'c:\Users\jasmi\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\jasmi\vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '56817' '-.' 'C:\Users\jasmi\OneDrive\Desktop\AI assisted code\AI ASSISTED CODE.py'
Largest number: 9
PS C:\Users\jasmi\OneDrive\Desktop\AI assisted code>
```

