

AIAC LAB ASSIGNMENT 1

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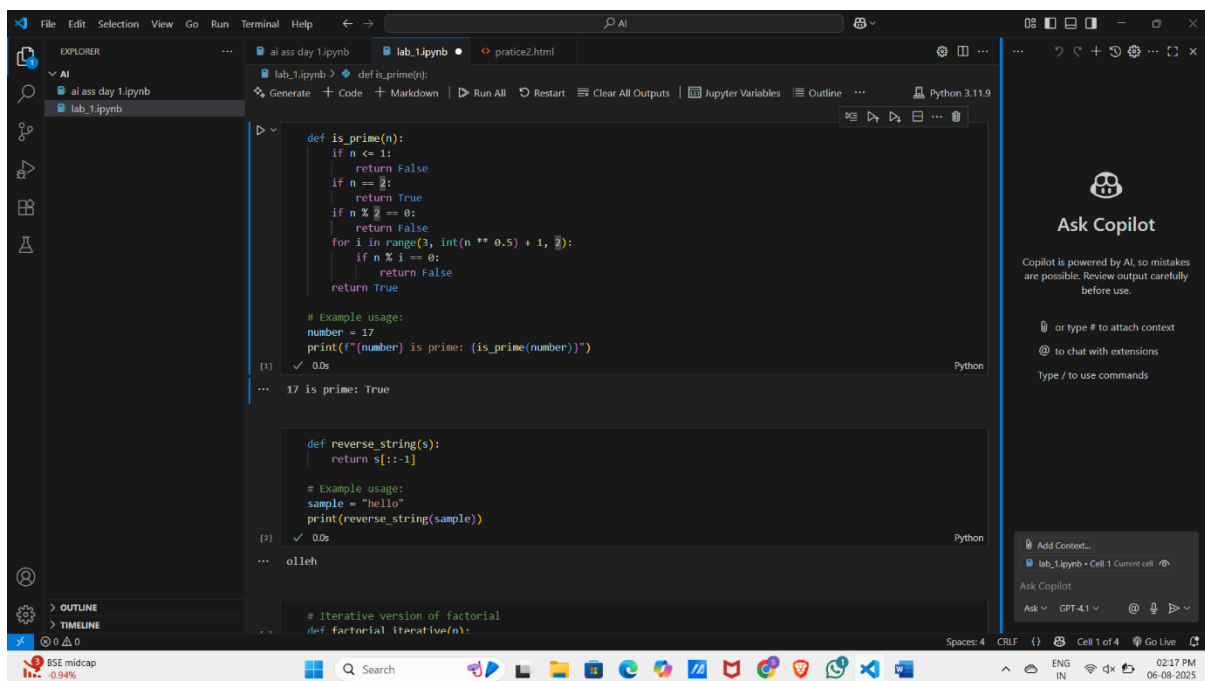
H.No : 2403A52008

Batch : 02

Subject : AI Assisted Coding

1)problem statement-check whether a number is prime or not. Take input dynamically from the user.

Prompt- write program to check whether the given number is prime or not



```
def is_prime(n):
    if n <= 1:
        return False
    if n == 2:
        return True
    if n % 2 == 0:
        return False
    for i in range(3, int(n ** 0.5) + 1, 2):
        if n % i == 0:
            return False
    return True

# Example usage:
number = 17
print(f"{number} is prime: {is_prime(number)}")
```

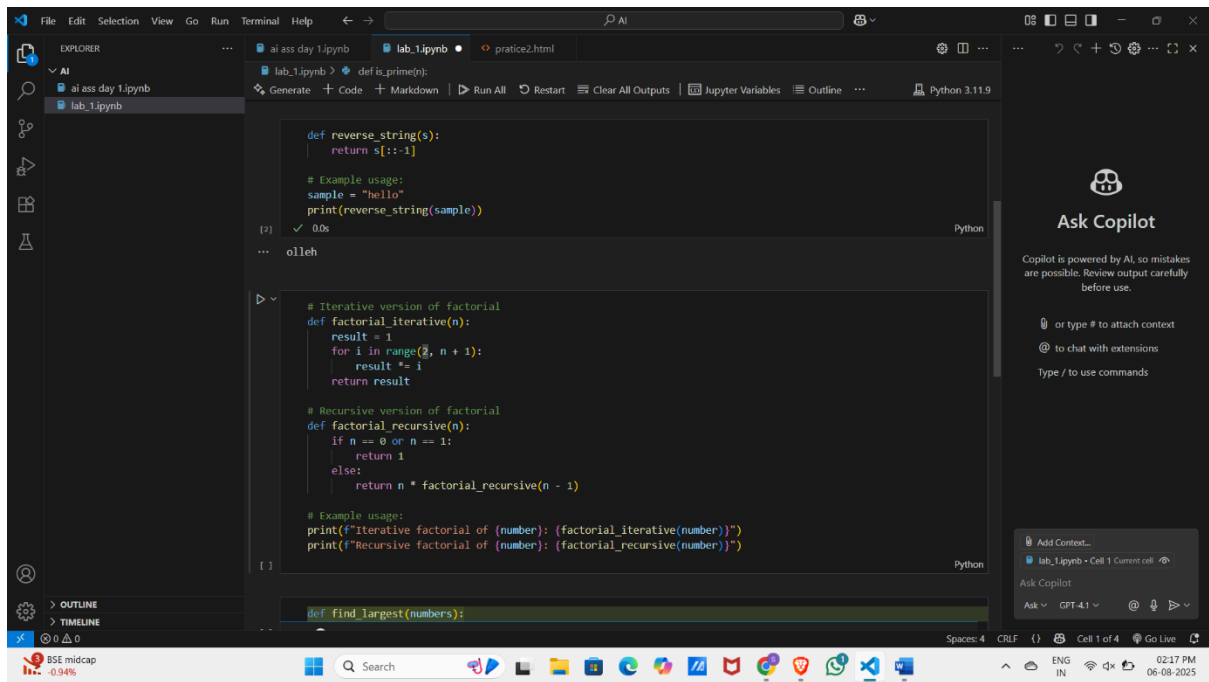
```
def reverse_string(s):
    return s[::-1]

# Example usage:
sample = "hello"
print(reverse_string(sample))
```

Result-17 is prime: True

2)problem statement- Generate a python code, use co-pilot to print the reverse of a string. Take the string from the user dynamically to reverse it.

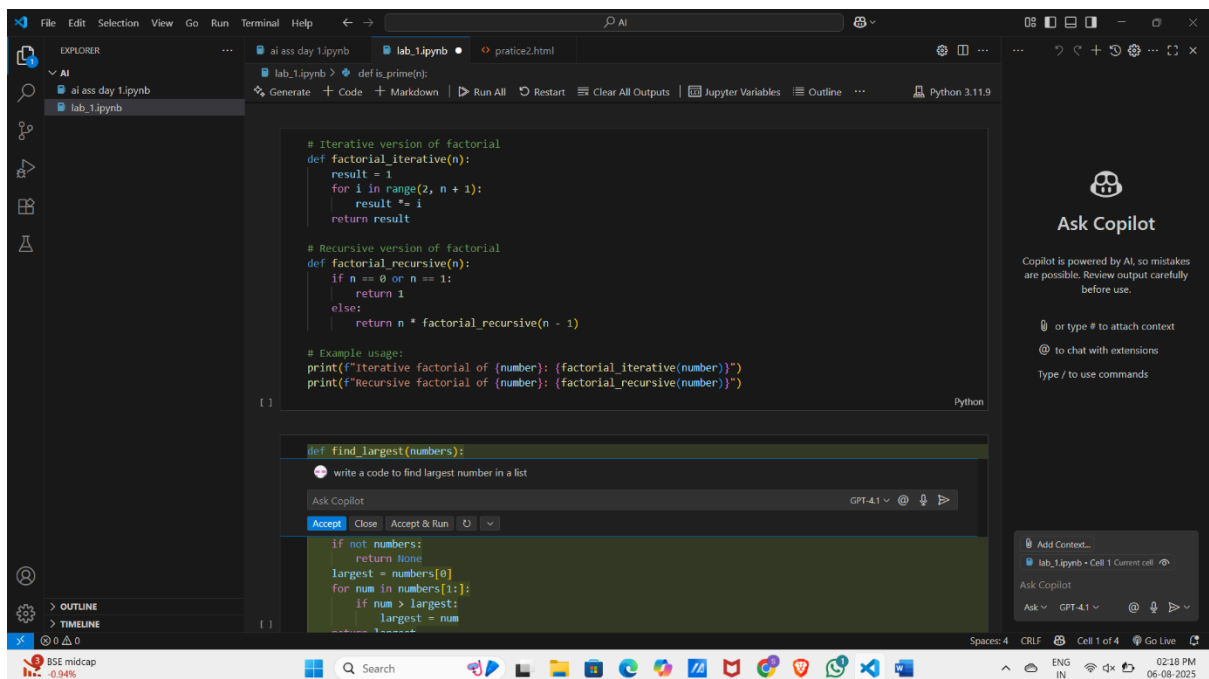
Prompt – generate a code to reverse the string in dynamically



Result- olleh

3) Problem statement- Generate recursive and iterative versions of a factorial function using comments

Prompt- write a program recursive and iterative versions of a factorial function using comments

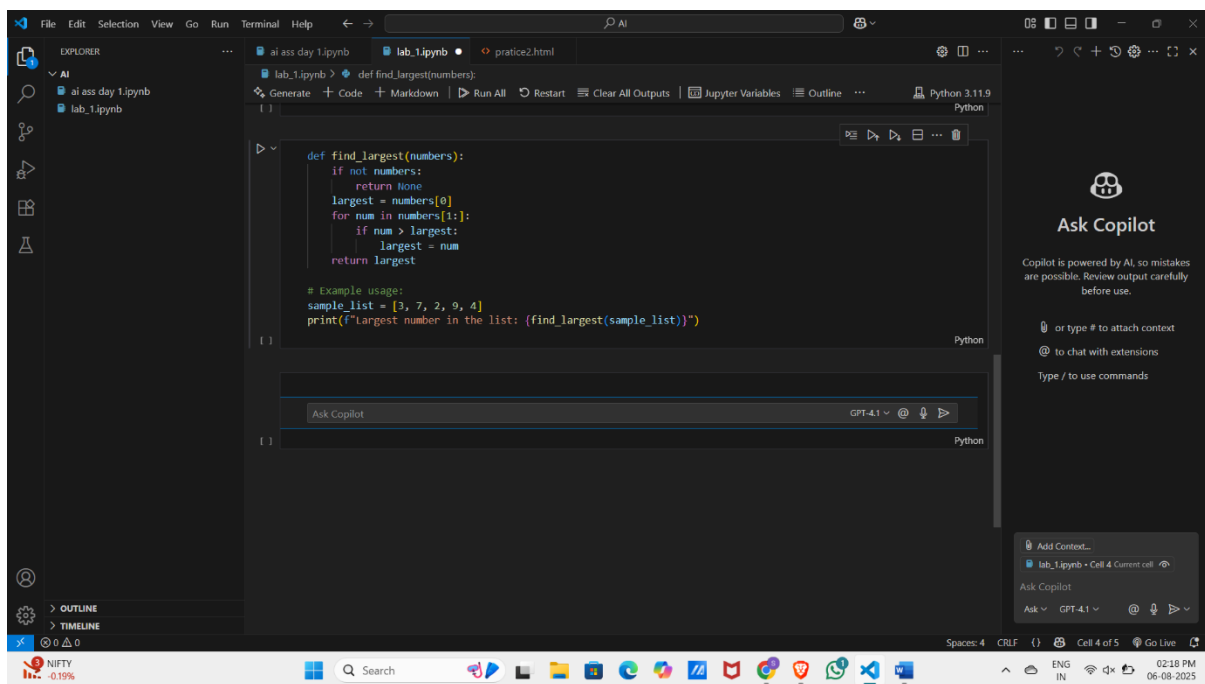


Result- Iterative factorial of 17: 355687428096000

Recursive factorial of 17: 355687428096000

4)problem statement- Generate a python code, use co-pilot to check the largest number in the list. Take input dynamically from the user.

Prompt-write a code to find largest number in a list



Result-Largest number in the list: 9