NAME =>Sai akshith

BATCH =>45

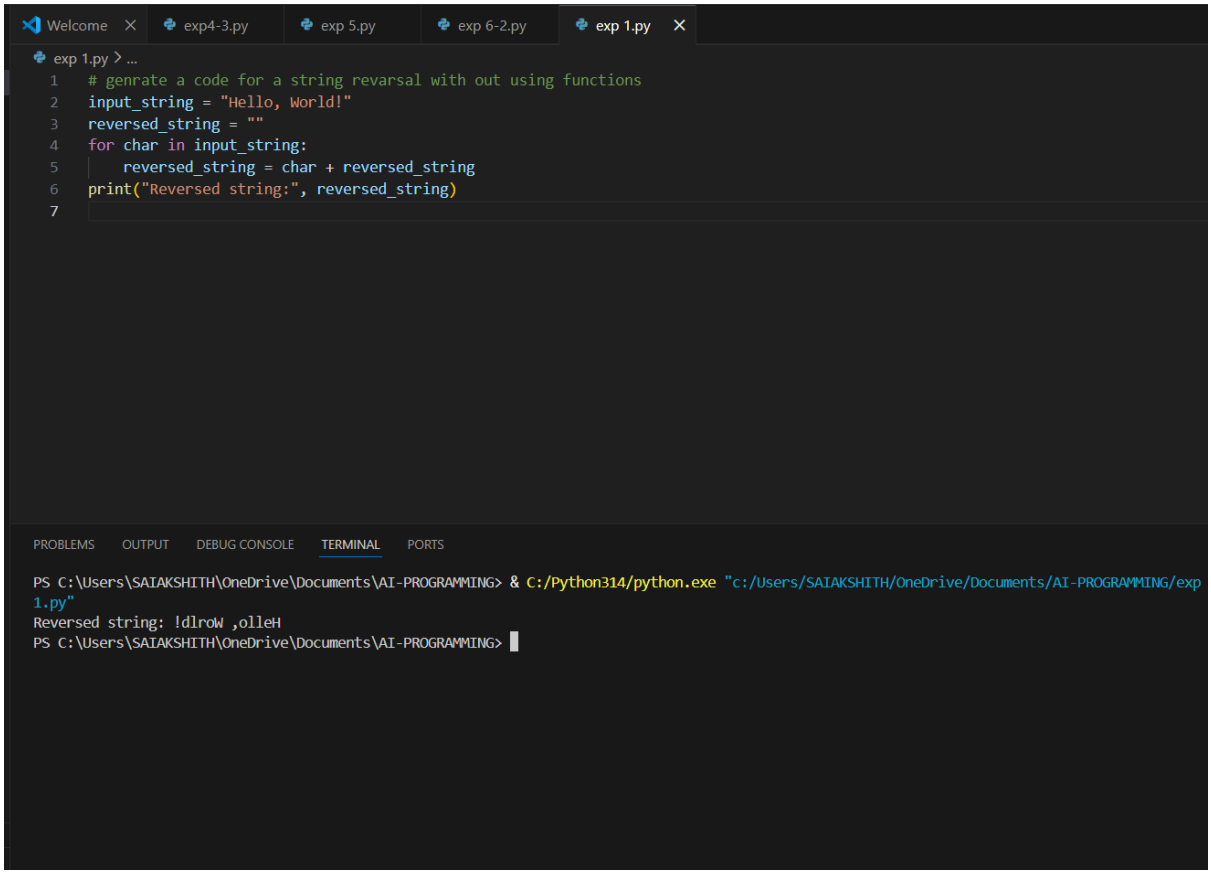
Task 1: AI-Generated Logic Without Modularization (String Reversal Without Functions)

❖ Scenario

You are developing a basic text-processing utility for a messaging application.

CODE:

```
# genrate a code for a string revarsal with out using functions
input_string = "Hello, World!"
reversed_string = ""
for char in input_string:
    reversed_string = char + reversed_string
print("Reversed string:", reversed_string)
```



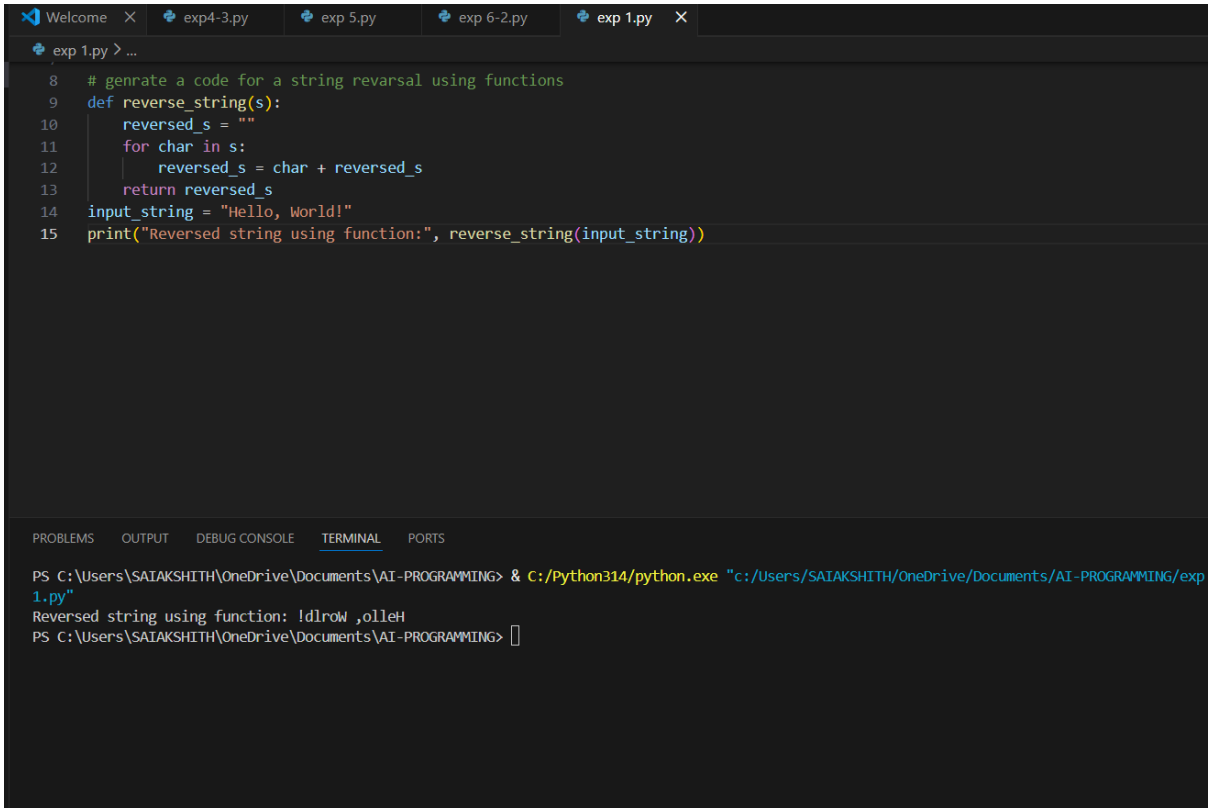
Task 3: Modular Design Using AI Assistance (String Reversal Using Functions)

❖ Scenario

The string reversal logic is needed in multiple parts of an application.

CODE:

```
def reverse_string(s):
    reversed_s = ""
    for char in s:
        reversed_s = char + reversed_s
    return reversed_s
input_string = "Hello, World!"
print("Reversed string using function:", reverse_string(input_string))
```



Task 5: AI-Generated Iterative vs Recursive Fibonacci Approaches (Different Algorithmic Approaches to String Reversal)

❖ Scenario

Your mentor wants to evaluate how AI handles alternative logic paths

CODE:

```
# genrate a code for revarsal of a string using slicing and loop
def reverse_string_slicing(s):
    return s[::-1]
input_string = "Hello, World!"
print("Reversed string using slicing:", reverse_string_slicing(input_string))
def reverse_string_loop(s):
    reversed_s = ""
    for char in s:
        reversed_s = char + reversed_s
```

return reversed_s

input_string = "Hello, World!"

print("Reversed string using loop:", reverse_string_loop(input_string))

```python
# genrate a code for revarsal of a string using slicing and loop
def reverse_string_slicing(s):
    return s[::-1]
input_string = "Hello, World!"
print("Reversed string using slicing:", reverse_string_slicing(input_string))
def reverse_string_loop(s):
    reversed_s = ""
    for char in s:
        reversed_s = char + reversed_s
    return reversed_s
input_string = "Hello, World!"
print("Reversed string using loop:", reverse_string_loop(input_string))
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\SAIAKSHITH\OneDrive\Documents\AI-PROGRAMMING> & C:/Python314/python.exe "c:/Users/SAIAKSHITH/OneDrive/Documents/AI-PROGRAMMING/exp
1.py"
Reversed string using function: !dlroW ,olleH
Reversed string using slicing: !dlroW ,olleH
Reversed string using loop: !dlroW ,olleH
PS C:\Users\SAIAKSHITH\OneDrive\Documents\AI-PROGRAMMING>
```