AI ASSISTED CODING

ASSIGNMENT – 01

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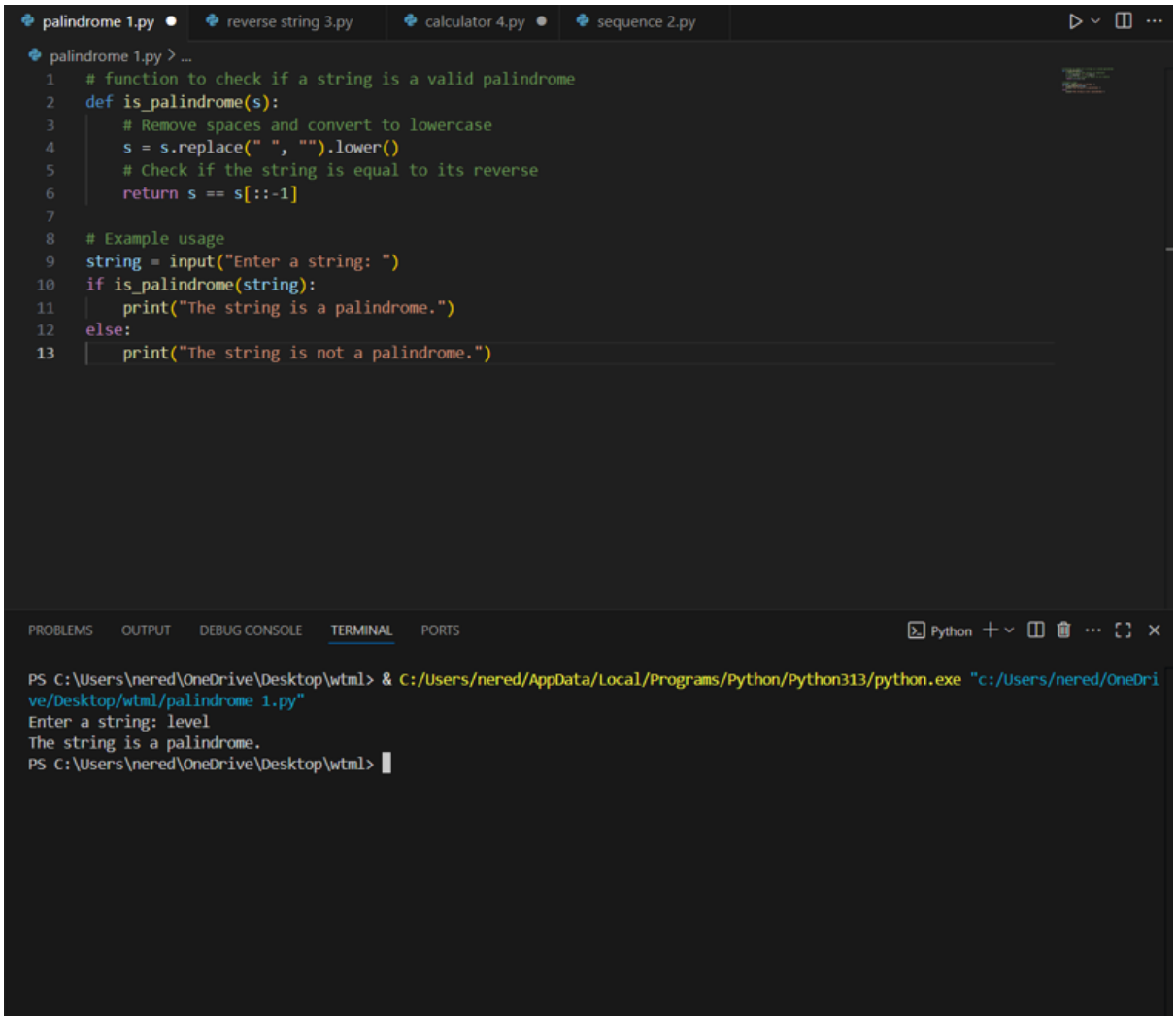
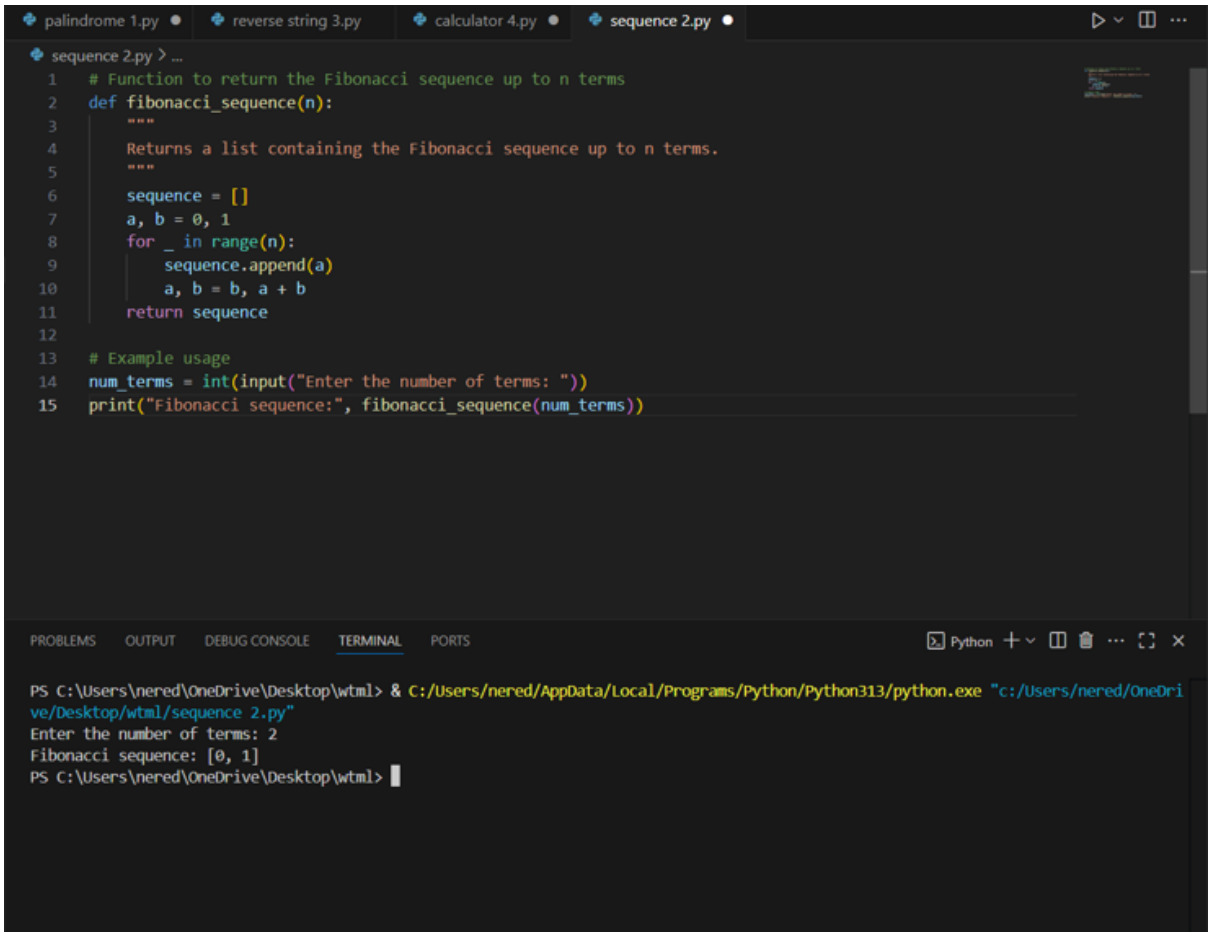
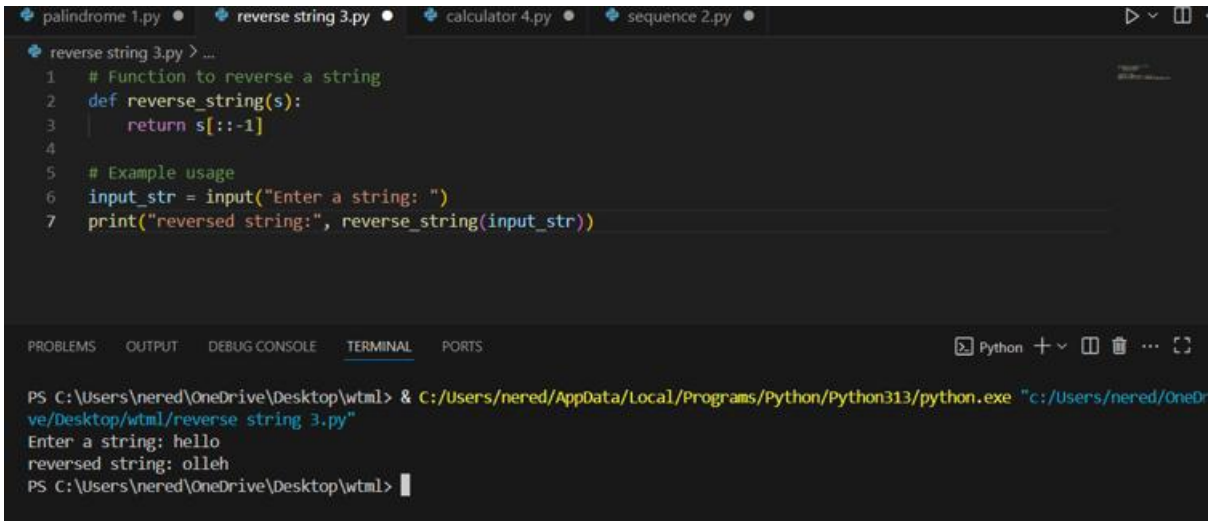
BATCH : 14




palindrome 1.py
reverse string 3.py
calculator 4.py
sequence 2.py
sequence 2.py > ...
# Function to return the Fibonacci sequence up to n terms
def fibonacci_sequence(n):
"""
Returns a list containing the Fibonacci sequence up to n terms.
"""
sequence = []
a, b = 0, 1
for _ in range(n):
sequence.append(a)
a, b = b, a + b
return sequence
# Example usage
num_terms = int(input("Enter the number of terms: "))
print("Fibonacci sequence:", fibonacci_sequence(num_terms))
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\nered\OneDrive\Desktop\wtml> & C:/Users/nered/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/nered/OneDrive/Desktop/wtml/sequence 2.py"
Enter the number of terms: 2
Fibonacci sequence: [0, 1]
PS C:\Users\nered\OneDrive\Desktop\wtml>


palindrome 1.py
reverse string 3.py
calculator 4.py
sequence 2.py
reverse string 3.py > ...
# Function to reverse a string
def reverse_string(s):
return s[::-1]
# Example usage
input_str = input("Enter a string: ")
print("reversed string:", reverse_string(input_str))
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\nered\OneDrive\Desktop\wtml> & C:/Users/nered/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/nered/OneDrive/Desktop/wtml/reverse string 3.py"
Enter a string: hello
reversed string: olleh
PS C:\Users\nered\OneDrive\Desktop\wtml>

palindrome 1.py ● | reverse string 3.py ● | calculator 4.py ● | sequence 2.py ●

calculator 4.py > ...

```python
# Program to simulate a basic calculator

def add(x, y):
    return x + y

def subtract(x, y):
    return x - y

def multiply(x, y):
    return x * y

def divide(x, y):
    if y == 0:
        return "Error! Division by zero."
    return x / y

print("Select operation:")
print("1. Add")
print("2. Subtract")
print("3. Multiply")
print("4. Divide")

choice = input("Enter choice (1/2/3/4): ")

num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))

if choice == '1':
    print("Result:", add(num1, num2))
elif choice == '2':
    print("Result:", subtract(num1, num2))
elif choice == '3':
    print("Result:", multiply(num1, num2))
elif choice == '4':
    print("Result:", divide(num1, num2))
else:
    print("invalid input")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python

```
PS C:\Users\nered\OneDrive\Desktop\wtml> & C:/Users/nered/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/nered/OneDrive/Desktop/wtml/calculator 4.py"
Select operation:
1. Add
2. Subtract
3. Multiply
4. Divide
Enter choice (1/2/3/4): 3
Enter first number: 2
Enter second number: 4
Result: 8.0
PS C:\Users\nered\OneDrive\Desktop\wtml>
```