

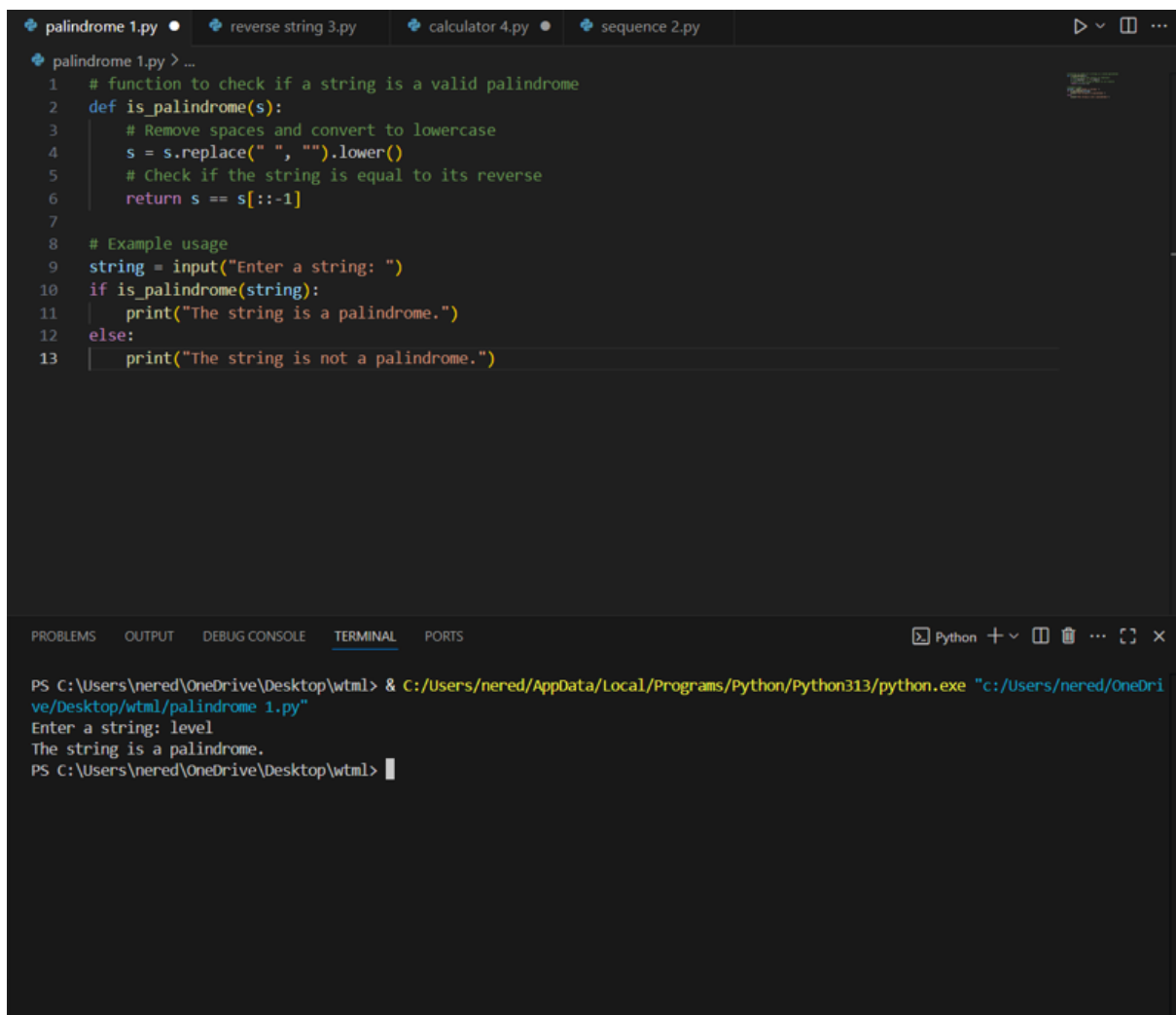
## AI ASSISTED CODING

### ASSIGNMENT – 01

NAME : K.SUPRIYA

ROLL NO : 2403A52395

BATCH : 14



The screenshot displays a Python IDE with a dark theme. The top panel shows four open files: 'palindrome 1.py', 'reverse string 3.py', 'calculator 4.py', and 'sequence 2.py'. The 'palindrome 1.py' file is active, showing the following code:

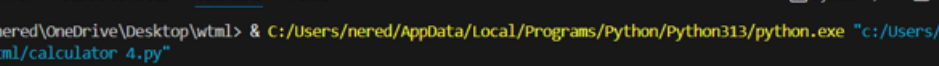
```
1 # function to check if a string is a valid palindrome
2 def is_palindrome(s):
3     # Remove spaces and convert to lowercase
4     s = s.replace(" ", "").lower()
5     # Check if the string is equal to its reverse
6     return s == s[::-1]
7
8 # Example usage
9 string = input("Enter a string: ")
10 if is_palindrome(string):
11     print("The string is a palindrome.")
12 else:
13     print("The string is not a palindrome.")
```

The bottom panel shows the 'TERMINAL' output, which includes the command to run the script and the program's execution:

```
PS C:\Users\nered\OneDrive\Desktop\wtml> & C:/Users/nered/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/nered/OneDrive/Desktop/wtml/palindrome 1.py"
Enter a string: level
The string is a palindrome.
PS C:\Users\nered\OneDrive\Desktop\wtml>
```



```
calculator 4.py > ...
1  # Program to simulate a basic calculator
2
3  def add(x, y):
4      return x + y
5
6  def subtract(x, y):
7      return x - y
8
9  def multiply(x, y):
10     return x * y
11
12 def divide(x, y):
13     if y == 0:
14         return "Error! Division by zero."
15     return x / y
16
17 print("Select operation:")
18 print("1. Add")
19 print("2. Subtract")
20 print("3. Multiply")
21 print("4. Divide")
22
23 choice = input("Enter choice (1/2/3/4): ")
24
25 num1 = float(input("Enter first number: "))
26 num2 = float(input("Enter second number: "))
27
28 if choice == '1':
29     print("Result:", add(num1, num2))
30 elif choice == '2':
31     print("Result:", subtract(num1, num2))
32 elif choice == '3':
33     print("Result:", multiply(num1, num2))
34 elif choice == '4':
35     print("Result:", divide(num1, num2))
36 else:
37     print("invalid input")
```



The screenshot shows a Visual Studio Code interface with a terminal window open. The terminal has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (selected), and PORTS. The terminal content shows a PowerShell prompt running a Python script. The script prompts for an operation (Add, Subtract, Multiply, Divide), a choice, two numbers, and displays the result 8.0. The terminal window title is '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>

```