

## AI ASSISTED CODING

## LAB ASSIGNMENT – 0.1

HALL TICKET NO : 2403A52403

BATCH NO : 14

The image shows a Visual Studio Code editor window with a Python file named `palindrome 1.py`. The script defines a function `is_palindrome(s)` that checks if a string is a palindrome by comparing it to its reverse. It includes comments for each step: removing spaces, converting to lowercase, and checking the string against its reverse. An example usage is provided where the user is prompted to enter a string, and the program prints whether it is a palindrome.

```

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 of the editor shows the **TERMINAL** tab, displaying the command to run the script and its output:

```

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>

```



