**PPWC Daily Practice**

**Date:01/11/2024**

**1.**  **Program to find the length of a string using recursion.**

**Code Logic and Explanation (Shortened)**

1. **Setup:**
   1. **‘MAX’ is set to 100, defining the max string length.**
   2. **‘NIL’ is defined as ‘'\0'‘, marking the end of a string.**
2. **Recursive Function ‘findlength()’:**
   1. **Base Case: If the current character is ‘NIL’, return ‘0’ (end of string).**
   2. **Recursive Case: Otherwise, return ‘1 + findlength(s + 1)’:**
   3. **Adds ‘1’ for the current character and recursively counts the remaining string.**
3. **Main Function:**
   1. **Prompts the user to enter a string.**
   2. **Reads the input (including spaces) into ‘b’.**
   3. **Calls ‘findlength(b)’ to calculate the string length.**
   4. **Prints the resulting length.**