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Self-Made Assignment - C Language

Introduction to String and String Manipulation in C Language

Assignment Question

Title: Count the Number of Characters in a String (Without Using String Functions)

Description:

Write a C program to:

1. Take a string input from the user.
2. Count the total number of characters in the string **manually** (without using `strlen()`).
3. Display the count.

Requirements:

- Use a `char` array to store the string.
- Use a loop to go through the string until you reach the null character `'\0'`.
- Do **not** use any built-in string functions.

What the Program Should Do:

- Create a `char str[100]`; to store the string.
- Take input using `scanf()` or `gets()` (for full lines).
- Use a loop like:

```
while (str[i] != '\0') {  
    count++;  
    i++;  
}
```

- Print the final count.

Output:

Output

```
Enter a string: language  
Total number of characters: 8
```