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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 Vowels in a String (Without Using String Functions)*

Description:

Write a C program to:

1. Take a string input from the user.
2. Count the number of **vowels** (a, e, i, o, u) in the string.
3. Display the total vowel 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 built-in functions like `strlen()` or `strchr()`.

What the Program Should Do:

- Read the input using `scanf()` or `gets()`.
- Use a `while` loop to iterate over each character.
- Check if each character is a vowel using `if` condition.
- Count the total vowels and print the result.

Output:

Output

```
Enter a string: hello world
Number of vowels: 2
```