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Self-Made Assignment - C Language

String Functions in C Language

Concatenate Two Strings Using `strcat()`

What does "concatenate" mean?

To concatenate two strings means to **join them together**.

For example:

- First string: "Hello"
- Second string: "World"
- After joining: "HelloWorld"

What is `strcat()`?

`strcat()` is a **built-in C function** from the `string.h` library that is used to join two strings.

Syntax:

```
strcat(destination, source);
```

- It **adds** the content of the source string to the **end** of the destination string.
- The result is stored in the destination string.

What do you need to do in this program?

1. **Include header files**
 - You need `#include <stdio.h>` and `#include <string.h>` because `strcat()` is defined in `string.h`.
2. **Create two character arrays (strings)**
 - One for the first string (`str1`)
 - One for the second string (`str2`)
3. **Make sure `str1` has enough space**
 - The destination string (`str1`) must be large enough to hold both strings after joining.
4. **Ask the user to enter both strings**
5. **Use `strcat()` to join them**
6. **Print the final string**

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Output:

Output

```
Enter first string: hello  
Enter second string: world  
Concatenated string: helloworld
```

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