

BOOK WRITTEN BY  
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# C STRING FUNCTION



जो रास्ते से नहीं डरे, वही मंजिल तक पहुँचे।



In C programming, a string is a sequence of characters terminated by a special character called the null character (\0). Strings are represented as arrays of characters and are commonly used to store and manipulate text.

## Characteristics of Strings in C:

### Null-Terminated:

- Strings in C are arrays of characters ending with a \0 (null character) to indicate the end of the string.
- For example, "Hello" is stored as:

**[ 'H', 'e', 'l', 'l', 'o', '\0' ]**

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## Declaration:



# Strings can be declared as

```
char str[10]; // Declares a string with a maximum  
of 9 characters + 1 for '\0'.
```

```
char str[] = "Hello"; // Declares and initializes a  
string.
```

```
char *str = "Hello"; // Points to a string literal  
(read-only).
```

## Initialization:

Strings can be initialized using

**char str[] = "Hello";**



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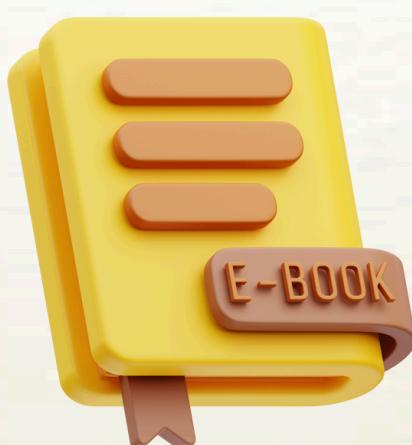
# String Functions:



The C standard library (`<string.h>`) provides functions to manipulate strings:

- `strlen(str)`: Returns the length of the string (excluding \0).
- `strcpy(dest, src)`: Copies one string to another.
- `strcat(dest, src)`: Concatenates two strings.
- `strcmp(str1, str2)`: Compares two strings.
- `strchr(str, ch)`: Finds the first occurrence of a character in a string.
- `strstr(haystack, needle)`: Finds a substring in a string.

सफलता की चाबी, कड़ी मेहनत और दृढ़ संकल्प में है।



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```
#include <stdio.h>
#include <string.h>
```

```
int main() {
    char str1[20] = "Hello";
    char str2[] = "World";
```

```
strcat(str1, str2); // Concatenates str2 to str1
printf("Concatenated String: %s\n", str1);
```

```
printf("Length of String: %lu\n", strlen(str1));
// Prints the length of the string
```

```
return 0;
}
```

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# strcpy



**Purpose:** Copies the content of one string into another.

```
char *strcpy(char *destination, const char *source);
```

```
char dest[20];
char src[] = "Copy this!";
strcpy(dest, src);
printf("Destination String: %s\n", dest);
// Output: Copy this!
```



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सीखते हैं उसे हम  
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