## PROGRAMMING IN C ASSIGNMENT ON

STRING FUNCTIONS

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## What is a string?

In C programming, a string is a sequence of characters terminated with a null character \0 or in other words, a string is a data type used in programming, such as an integer and floating point unit, but is used to represent text rather than numbers.

It consists of a set of characters that can also contain spaces and numbers. For example, the word "hamburger" and the phrase "I ate 3 hamburgers" are both strings. Even "12345" could be considered a string, if specified correctly. Typically, programmers must enclose strings in quotation marks for the data to recognized as a string and not a number or variable name. For example:

char c[] = "c string";

char c[] = "abc&123";

When the compiler encounters a sequence of characters enclosed in the double quotation marks, it appends a null character \0 at the end by default. String handling functions

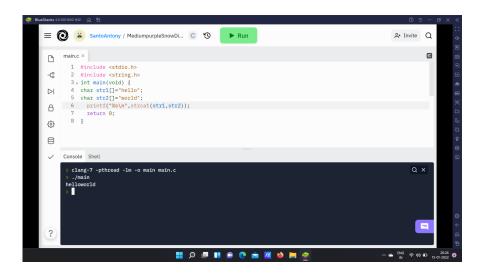
String handling functions can be used to carry out many of the string manipulations. These functions are packed in the string.h library. We have to include string.h in programs to use these functions. Mostly used string functions are:

1. strcat(): It is used to concatenate(combine) two strings.

Syntax:strcat(str1,str2)

Example:

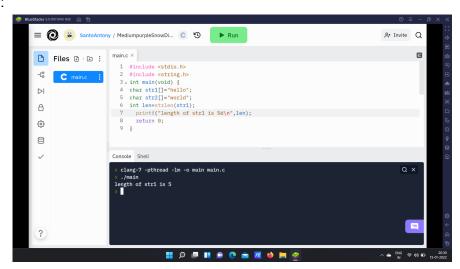
CODE:



2. strlen(): It is used to show the length of a string.

Syntax : strlen(str1)

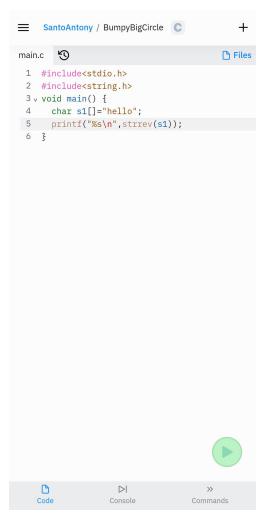
Example : CODE:



3. strrev(): It is used to show the reverse of a string.

Syntax : strrev(str1)

Example : CODE :



```
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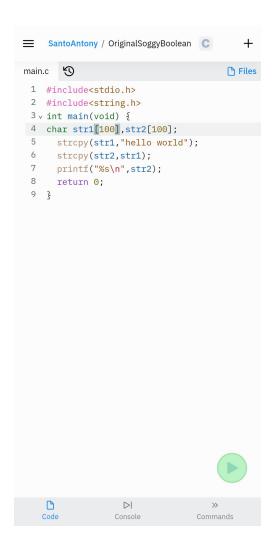
Process exited after 0.0819 seconds with return value 0

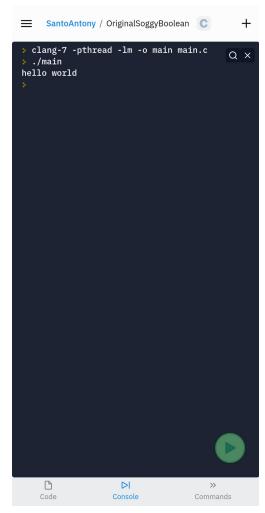
Press any key to continue . . .
```

4. strcpy(): It copies one string into another.

Syntax: strcpy(str1,str2)

Example : CODE :

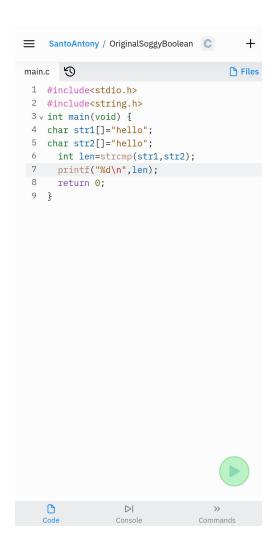




5. strcmp(): It is used to compare two strings. The strcmp() compares two strings character by character. If the strings are equal, the function returns 0, greater than 0 if the first non-matching character in str1 is greater (in ASCII) than that of str2, less than 0 if the first non-matching character in str1 is lower (in ASCII) than that of str2.

Syntax: strcmp(str1,str2)

Example Code:





6. strlwr(): It is used to convert the input to lowercase.

Syntax: strlwr(str1)

Example:



7.strupr(): It is used to convert the input to uppercase.

Syntax : strupr(str1)

Example : CODE:

```
#include<stdio.h>
#include<string.h>
void main()
{
   char s1[]="hello";
   printf("%s\n",strupr(s1));
}

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Process exited after 0.07542 seconds with return value ()
Press any key to continue . . . . . . . . . . . .
```

8.strncat(): It is used to concatenate n characters of second string to first

string.

Syntax: (str1, str2, n)

Example : CODE:



9.strncpy(): It copies a given number of characters of one string into

another.

Syntax: strncpy(str1, str2, n)

Example: CODE:



10.strstr(): It returns the pointer of the first occurrence of str2 in str1.

Syntax: strstr(str1,str2)

Example: CODE:

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the swin() {

    char st() = 'Nelcome to C programing';

    char st() = 'to';

    char st() = 'to';

    char st() = 'to';

    char st() = 'to';

    print('String founds');

    print('First occurrence of 'Ne' in 'Ne' in 'Ne',

    slee

    print('Giring not founds');

    return 0;

}
```