PROGRAMMING IN C

STRING HANDLING FUNCTIONS

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WHAT IS A STRING?

In C programming a string is a sequence of characters terminated with a null character. In other words, a string is a data type used in programming. it is used to represent text rather than just numbers.

It consists of a set of characters that can also contain spaces and numbers. Typically programmers must enclose strings in quotation for the data to be recognized as a string and not a number or variable.

STRING HANDLING FUNCTIONS

String handling functions are those which can be used to carry out many of the string manipulations. These functions are packed in the **string.h** library.

1.strcat():

It is used to combine 2 strings

strcat(string1,string2)

Example:

Code:

Output:

```
Windows PowerShell
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PS D:\C Program> cd "d:\C Program\" ; if ($?) { gcc strlen.c -o strlen } ; if ($?) { .\strlen } helloworld

PS D:\C Program> |
```

2.strlen():

This function will return the length of the string passed to it Syntax:

strlen(string1)

Example:

Code:

Output:

```
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PS D:\C Program> cd "d:\C Program\" ; if ($?) { gcc strlen.c -o strlen } ; if ($?) { .\strlen }

Length of str1 is 5

PS D:\C Program>
```

3.strcmp():

This function will return an ASCII difference between the first unmatching character of two strings.

Syntax:

strcmp(string1,string2)

Example:

Code:

Output:

```
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PS D:\C Program> cd "d:\C Program\" ; if ($?) { gcc strcmp.c -0 strcmp } ; if ($?) { .\strcmp } -1

PS D:\C Program> |
```

4.strcpy():

This function will copy second string argument to the first string argument

strcpy(string1,string2)

Example:

Code:

Output:

```
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PS D:\C Program> cd "d:\C Program\" ; if ($?) { gcc strcpy.c -0 strcpy } ; if ($?) { .\strcpy } hello
PS D:\C Program>
```

5.strrev():

This function will reverse the given string.

strrev(string1)

Example:

Code:

Output:

```
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PS D:\C Program> cd "d:\C Program\"; if ($?) { gcc strrev.c -o strrev }; if ($?) { .\strrev } olleH

PS D:\C Program>
```

6.strupr():

This function will change all lowercase letters of the given string to uppercase

strupr(string1)

Example:

Code:

Output:

```
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PS D:\C Program> cd "d:\C Program\" ; if ($?) { gcc strupr.c -o strupr } ; if ($?) { .\strupr } HELLO

PS D:\C Program>
```

7.strlwr():

This function will change all uppercase letters of the given string to lowercase

```
strlwr(string1)
```

Example:

Code:

Output:

```
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PS D:\C Program> cd "d:\C Program\"; if ($?) { gcc strlwr.c -o strlwr }; if ($?) { .\strlwr } hello
PS D:\C Program>
```