# **PROGRAMMING IN C**

# ASSIGNMENT ON

# **STRING FUNTIONS**

Submitted to: Mrs. Linu Joseph Submitted by Leo Jose Roll no:12112526

# **STRING**

A string is a sequence of characters that is treated as a single data item. C does not support string as a data type,instead it allows us to represent strings as character arrays. A string can be defined as a one dimensional array of characters terminated by a null character '/0'. These are often used to create meaningful and readable programs

```
Eg: char[]="Hello World"; char[]="sb@100";
```

# **STRING HANDLING FUNTIONS**

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)

#### CODE

#### **OUTPUT**

```
PS C:\Users\Leo Jose> cd "c:\Users\Leo Jose\Desktop\c\" ; if ($?) { gcc strcat.c -o strcat } ; if ($?) { .\strcat } HelloWorld
PS C:\Users\Leo Jose\Desktop\c>
```

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

Syntax: strlen(str1);

**3. strrev()**: It is used to show the reverse of a string. Syntax: strrev(str1)

#### CODE

# **OUTPUT**

```
PS C:\Users\Leo Jose> cd "c:\Users\Leo Jose\Desktop\c\" ; if ($?) { gcc strcat.c -0 strcat } ; if ($?) { .\strcat } olleH
PS C:\Users\Leo Jose\Desktop\c>

sct Python Interpreter ⊗ 0 △ 0

Ln 7, Col 2 Spaces: 4 UTF-8 CRLF C Win32 № □
```

**4. strcpy()**: It copies one string into another. Syntax: strcpy(str1,str2)

```
PS C:\Users\Leo Jose> cd "c:\Users\Leo Jose\Desktop\c\" ; if ($?) { gcc strcat.c -0 strcat } ; if ($?) { .\strcat }
Hello World
PS C:\Users\Leo Jose\Desktop\c>
```

**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)

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Leo Jose\ cd "c:\Users\Leo Jose\Desktop\c\"; if ($?) { gcc strcat.c -o strcat }; if ($?) { .\strcat }

1
PS C:\Users\Leo Jose\Desktop\c>

A Select Python Interpreter 80 A 0

Ln 6, Col 19 Spaces: 4 UTF-8
```

**6. strlwr()**: It is used to convert the input to lowercase. Syntax: strlwr(str1)

# CODE

#### **OUTPUT**

```
PS C:\Users\Leo Jose\ cd "c:\Users\Leo Jose\Desktop\c\" ; if ($?) { gcc strcat.c -o strcat } ; if ($?) { .\strcat } hello
PS C:\Users\Leo Jose\Desktop\c>
```

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

Syntax: strupr(str1)

```
PS C:\Users\Leo Jose\Desktop\c\"; if ($?) { gcc strcat.c -0 strcat }; if ($?) { .\strcat }

#ELLO
PS C:\Users\Leo Jose\Desktop\c>

A Select Python Interpreter 80 A 0

Ln 5, Col 23 Spaces: 4 UTF-8 CRLF C Win32 P C
```

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

Syntax: (str1, str2, n)

# CODE

# **OUTPUT**

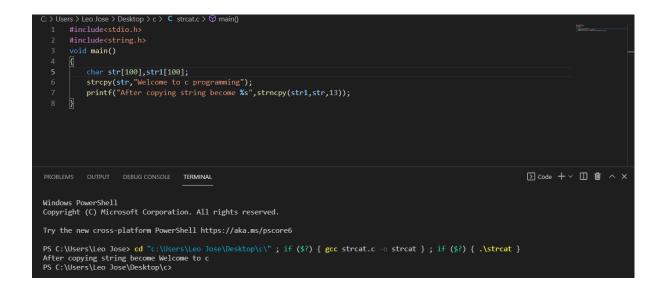
```
PS C:\Users\Leo Jose\Desktop\c\"; if ($?) { gcc strcat.c -0 strcat }; if ($?) { .\strcat }

String 1 is Hello
The string 2 is Welcome to c Programming
AFTER COMBINING string become Hello Welcome to c Program
PS C:\Users\Leo Jose\Desktop\c>
```

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

Syntax: strncpy(str1, str2, n)

#### **CODE & OUTPUT**



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

Syntax: strstr(str1,str2)

# **CODE & OUTPUT**