**PSG COLLEGE OF TECHNOLOGY, COIMBATORE – 641 004**

**DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCES**

**Worksheet -8**

**Class : M.Sc (SS/TCS) Semester: 1 Course : C Programming Lab**

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| String functions | Description |
| [strcat ( )](http://fresh2refresh.com/c/c-strings/c-strcat-function/) | Concatenates str2 at the end of str1 |
| [strncat ( )](http://fresh2refresh.com/c/c-strings/c-strncat-function/) | Appends a portion of string to another |
| [strcpy ( )](http://fresh2refresh.com/c/c-strings/c-strcpy-function/) | Copies str2 into str1 |
| [strncpy ( )](http://fresh2refresh.com/c/c-strings/c-strncpy-function/) | Copies given number of characters of one string to another |
| [strlen ( )](http://fresh2refresh.com/c/c-strings/c-strlen-function/) | Gives the length of str1 |
| [strcmp ( )](http://fresh2refresh.com/c/c-strings/c-strcmp-function/) | Returns 0 if str1 is same as str2. Returns <0 if strl < str2. Returns >0 if str1 > str2 |
| [strcmpi ( )](http://fresh2refresh.com/c/c-strings/c-strcmpi-function/) | Same as strcmp() function. But, this function negotiates case.  “A” and “a” are treated as same. |
| [strchr ( )](http://fresh2refresh.com/c/c-strings/c-strchr-function/) | Returns pointer to first occurrence of char in str1 |
| [strrchr ( )](http://fresh2refresh.com/c/c-strings/c-strrchr/) | last occurrence of given character in a string is found |
| [strstr ( )](http://fresh2refresh.com/c/c-strings/c-strstr-function/) | Returns pointer to first occurrence of str2 in str1 |
| [strrstr ( )](http://fresh2refresh.com/c/c-strings/c-strrstr-function/) | Returns pointer to last occurrence of str2 in str1 |
| [strdup ( )](http://fresh2refresh.com/c/c-strings/c-strdup-function/) | Duplicates the string |
| [strlwr ( )](http://fresh2refresh.com/c/c-strings/c-strlwr-function/) | Converts string to lowercase |
| [strupr ( )](http://fresh2refresh.com/c/c-strings/c-strupr-function/) | Converts string to uppercase |
| [strrev ( )](http://fresh2refresh.com/c/c-strings/c-strrev-function/) | Reverses the given string |
| [strset ( )](http://fresh2refresh.com/c/c-strings/c-strset-function/) | Sets all character in a string to given character |
| [strnset ( )](http://fresh2refresh.com/c/c-strings/c-strnset-function/) | It sets the portion of characters in a string to given character |
| [strtok ( )](http://fresh2refresh.com/c/c-strings/c-strtok-function/) | Tokenizing given string using delimiter |

* C program to print string one by one characters using loop.
* C program to print all VOWEL and CONSONANT characters separately.
* C program to count upper case, lower case and special characters in a string.
* C program to convert string in upper case and lower case.
* C program to toggle case of all characters of string.
* C program to reverse string in same variable, without using another string variable to reverse.
* C program to find occurrence of a character in the string.
* C program to replace all vowels with star (\*) and consonants with hash (#) of string.
* C program to print following pattern.

H

He

Hel

Hell

Hello

* C program to print following pattern.

Hello

Hell

Hel

He

H

* Write a C program to convert numeric String to an int.
* Write a C program to check if a String is valid shuffle of two String.
* Write a C program to find the highest occurred character in a String.
* Write a C program to remove a given character from String.
* Write a C program to Check if the Substring is present in the given String
* Write a C Program to Replace Lowercase Characters by Uppercase & Vice-Versa
* Write a C Program to Remove given Word from a String
* Write a C Program to Remove all Characters in Second String which are present in First String
* Write a C Program to Reverse every Word of given String