

Lab 8 : Stings, Pre-processor directives and Macros

1. Write a program to demonstrate the use of following functions- **strlen()**, **strlwr()**, **strupr()**, **strcpy()**, **strncpy()**, **strcmp()**, **strcmpi()**, **strchr()**, **strrchr()**.

You are asked to store all the students name those who have enrolled in the class. You designed a two dimensional array (*std_name_array[][]*) where the first dimension stores the number of the students name and the second dimension stores the maximum length of each name. Do the following:

- i) Read those students name and display them on the screen using pointer.
- ii) Search a particular student name is present in the *std_name_array[][]* or not using binary search.
- iii) Append the word 'NIT-J' at the end of each name.
- iv) List out the name(s) which has maximum characters.

1. Write a C program to find total number of alphabets, digits or special character in a string.
2. Calculate the area of circle by using function call macros.
3. Write a C program using function to check whether a string is palindrome or not.
4. Find the greater no among three nos. using function call macros.
5. Write a program to implement predefines macros

`_DATE_`
`_FILE_`
`_LINE_`
`_STDC_`
`_TIME_`

Assignment

1. Write a C program to find last occurrence of a character in a given string.
2. Write a program to print error message using `#error` directive