

## **Find Length of the String using Pointer**

### Aim:

To write a C program to find the length of the given string using pointers.

### Algorithm:

- 1) Start the program.
- 2) Declare a character array 'str' and a character pointer '\*ptr'.
- 3) Initialize 'count' as 'zero'.
- 4) Get a string from the user.
- 5) Assign 'str' value to 'ptr'.
- 6) Do
  - a).Increment 'count'.
  - b).Increment 'ptr'.
- 7) While check if \*ptr not equal to end of string('\0').
- 8) Display the length of the string stored in 'count'.
- 9) Stop the program

### Program:

```
#include<stdio.h>
#include<conio.h>

void main()
{
    char str[20], *ptr;
    int count;
    clrscr();
    count = 0;
    printf("\nEnter a String below 20 characters: ");
    gets(str);
    ptr = str;
    do
    {
        count++;
        ptr++;
    }while(*ptr!='\0');
    printf("\nLength of %s is %d",str, count);
    getch();
}
```

### Result:

Thus the C program to find the length of the given string using pointers is executed successfully.