#### STRING HANDLING FUNCTIONS IN C

#### What are strings?

A string is a datatype used in c programming, such as an integer and floating point unit, but it is used to represent text rather than numbers. It is comprised of a set of characters that can also contain spaces and numbers. The length of a string is often determined by using a null character.

- ➤ C language supports a large number of string handling functions that can be used to carry out many of the string manipulations.
- ➤ These functions are packaged in string.h library.
- ➤ Hence we must include string.h header file in our programs to use these functions.

There are 18 types of string handling function. In this assignment, there are 12 functions because they are major functions in string.

# 1. strlen()

This function is used to show the length of a string.

```
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ABELJO~1\STRLEN.C

#include<a href="mailto:string.h">
#in
```

```
mo. of letters=5
```

# 2. <u>strrev()</u>

This function is used to show the reverse of a string.

```
reverse=elosnoc_
```

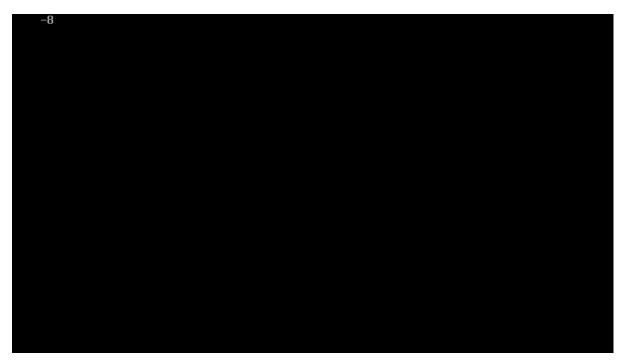
# 3. strcpy()

This string function copies one string into another.

```
javascript
```

# 4. <u>strcmp()</u>

This function is used to compare two strings.



# 5. strlwr()

This function is used to convert the given input to lowercase.

```
the lower word=python_
```

## 6. strupr()

This function is used to convert the given input to upper case Letter.

```
enter the string in lower case:hello world

String in upper case=HELLO WORLD_
```

# 7. strcmpi()

This function is same to strcmp, but stcmpi negotiates case "A" and "a" are treated as same.

```
the return function is:(null)_
```

#### 8. strncat()

Used to combine n characters of second string to first string.

```
string 1=turbosoftware
string 2=software
```

# 9. strncmp()

Used to compare n characters of second string to first string.

```
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ABELJO"1\STRNCMP.C
                                                                            Window Help
  ·[•]=
 #include<stdio.h>
 #include<comio.h>
 #include<string.h>
 void mainO
                                                        П
          clrscr();
         char str1[10]="warne";
char str2[10]="warner";
          int result=strncmp(str1,str2,5);
          if (result == 0)
          £
                   printf("str1 is equal to str2 upto num characters\n");
          else if(result>0)
          printf("str1 is greater than str2\n");
          else
          printf("str2 is greater than str1\n");
printf("value by strncmp() is=xd",result);
          getchO;
        = 9:39 ----[]
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
str1 is equal to str2 upto num characters
value by strncmp() is=0_
```

### 10. <u>strncpy()</u>

Copies given number of characters of one string to another.

```
str1=NeymarJr
str2=
str2 after=Neymar
```

# 11. <u>strstr()</u>

This function returns pointer to first occurrence of str2 and str1.

```
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ABELJO~1\STRSTR.C

#include<conio.h>
#include<string.h>
void main()

{
    clrscr();
    char str1[]="PeterCech";
    char str2[]="Ce";
    char *occ;
    occ=strstr(str1,str2);
    if(occ)
    printf("accurence of string '%s' in '%s' is '%s'",str2,str1,occ);
    else
    printf("string not found\n");
    getch();

#Include<conio.h>
#Include<conio.h
#Include<conio.h
#Include<conio.h
#Include<conio.h
#Include<coni
```

```
occurence of string 'Ce'in 'PeterCech' is 'Cech'
```

#### 12.<u>strcat()</u>

This string function is used to combine two strings.

```
combined word=WelcomeHome
```