String Library Functions



```
strien — find the length of the string.
Syntax:int variable_name= strlen(string_name);
```

strcpy

- copies the contents of one string into another.
- □base addresses of the source and target strings should be supplied to this function.

```
main()
{
    char source[20] = "Sayonara";
    char target[20];
    strcpy ( target, source );
    printf ( "\nsource string = %s", source );
    printf ( "\ntarget string = %s", target );
}
```

Output:

source string = Sayonara
target string = Sayonara



On supplying the base addresses, strcpy() goes on copying the characters in source string into the target string until it encounter the end of source string ('\0')

without using strcpy

```
main()
           char source[20] = "Sayonara", target[20];
           char *s,*t;
           s=source;
           t=target;
           while ( *s != '\0')
                       *t = *s;
                       S++;
                       t++;
           *t='\0';
```



strcat

- concatenates the source string at the end of the target string.
- For eg, "Bombay" and "Nagpur" on concatenation would result into a string "BombayNagpur".

```
main()
          char source[30] = "Folks!";
          char target[30] = "Hello";
          strcat ( target, source );
          printf("source string =");
          puts(source);
          printf("target string =");
          puts(target);
And here is the output...
source string = Folks!
target string = HelloFolks!
```



Without using strcat

```
main()
           char source[30] = "Folks!" ,target[30] = "Hello" ;
           int i_;
           for(i=0;target[i]!='\0';i++);
           for(j=0;source[j]!='\0';i++,j++)
                       target[i]=source[j];
           target[i]='\0';
           printf ( "\nsource string = %s", source );
           printf ( "\ntarget string = %s", target );
           And here is the output...
           source string = Folks!
           target string = HelloFolks!
```

strcmp

- compares two strings to find out whether they are same or different.
- ☐ The two strings are compared character by character until there is a mismatch or end of one of the strings is reached, whichever occurs first.
- □ If the two strings are identical, strcmp() returns a value zero. If they're not, it returns the numeric difference between the ASCII values of the first non-matching pairs of characters.



```
☐ Without using strcmp
 #include<stdio.h>
 main()
         char string1[] = "Jerry" ,string2[] = "Ferry";
          int i=0;
         while((string1[i]==string2[i]) &&(((string1[i] != \0')||(string2[i]!=\0')))
                   i++;
         if(string1[i] !=string2[i])
                   printf("Strings are not equal");
         else
                   printf("Strings are equal");
```

