

String's functions

strlen() ⇒ It finds length of string
strcpy (arg1, arg2) ⇒ It copies arg2 into arg1.

strncpy (Destination, source, length) ⇒ It copies n characters from source to destination

strcat (dest, source) ⇒ It is used to concatenate source into destion.

strncat (dest, source, length) ⇒ It is used to concatenate n number of characters from source to destiniat

strcmp (str1, str2) ⇒ It compare two strings and returns 0 if both are same.

Note:- All of these are predefined function
to use these function we should include header file "string.h"

1. strlen()

strlen (str); // It return length of str

```
char str1[] = "Hello"; OR char str1[6] = "Hello";
    |   |   |   |   |   |
    H   e   l   l   o   \0
    |   |   |   |   |   |
    H   e   l   l   o   \0
```

'\0' → Null character
→ string terminated
→ End of string

strlen() ⇒ It returns length

int len = strlen (str1); ⇒ 5

printf ("length of str1 is %d", len);

Don't use extra variable
printf ("length of str1 is %d", strlen (str1));

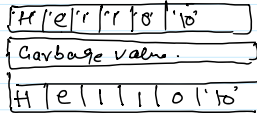
2 strcpy (str1, str2);

It will copy str2 into str1.

```
char str2[] = "Hello";
char str1[6];
```

// 5 for storing "Hello", + 1 for null character.

```
strcpy (str1, str2);
printf ("str1 is %s", str1);
```



Q. What if I print str1 before copying str2 into it? ⇒ Undefined behavior
OR Garbage value.
OR null values

3 strncpy (dest, source, len)

```
char str1[] = "Hello";
```

// suppose I want to copy only 3 char from str1.

```
char str2[6]; ⇒ "Hel"
```

```
strncpy (str2, str1, 3);
```

```
printf ("\n str2 is %s", str2); ⇒ Hel
```

~~Hel~~
Hel
Hel*****

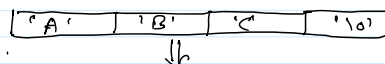
Better way?

```
char str2[6] = {'\0'}; ⇒ 204
```

```
strcpy (str2, str1, 3);
```

```
printf ("\n str2 is %s", str2); ⇒ Hel
```

Example. char str1[] = "ABC"; 4B or 4 bytes
⇒ char str1[] = {65, 66, 67, 0};



65 | 66 | 67 | 0

Everything is converted to Binary

8 bits = 1 0 0 0 0 0 0 1

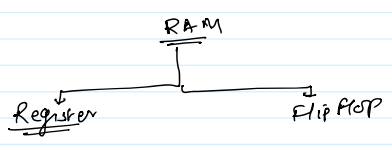
0 1 1 0 0 1 0 0

65 into Binary

66 into Binary

64 32 16 8 4 2 1
 1 0 0 0 0 0 1

1 0 0 0 0 1 0



0 1 0 0 0 0 0 1

