

C Language – Strings

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Strings

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

// sample program : strings

main()
{
    char countryname[10] = { 'A', 'u', 's', 't', 'r', 'a', 'l', 'i', 'a', '\0' }
;
    char cityname[] = "Sydney" ;

    printf("Country name = %s \n", countryname) ;
    printf("City name = %s \n", cityname) ;
}
```

Strings, functions

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

// sample program : strings, functions

main()
{
    char countryname[10] = { 'A', 'u', 's', 't', 'r', 'a', 'l', 'i', 'a', '\0' };
    char cityname[] = "Sydney" ;

    printstring("Country name" , countryname) ;
    printstring("City name", cityname) ;

}
printstring(char *mdesc, char *mstr)
{
    printf(" %s = %s \n", mdesc, mstr) ;
}
```

Strings, Scanf

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

// sample program : strings, scanf

main()
{
    char name[20] ;

    printf("Enter your name : ");
    scanf("%s", name);
    printf("Your name is : %s" , name);

}
```

String functions

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

main()
{
    char name[20] ;
    printf("Enter name: ");
    gets(name);
    printf("Name: ");
    puts(name);
}
```

[strlen\(\)](#)

Calculates the length of string

[strcpy\(\)](#)

Copies a string to another string

[strcat\(\)](#)

Concatenates(joins) two strings

[strcmp\(\)](#)

Compares two string

String functions

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

// sample program : strings, functions

main()
{
    char name[20] = "Sample String" ;
    printf("length = %d" , strlen(name) );

    // copy string to another string
    char name2[20];
    strcpy(name2, name);
    puts( name2);

    // string concatenation
    strcat(name, name2); // resultant string stored in name
    puts( name);
}
```

Assignment

1. Declare a string, use `strlwr()` and convert string to lower chars, print the new string
2. Declare a string, use `strupr()` and convert string to upper chars, print the new string