

```
//string
```

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

```
int main()
```

```
{
```

```
    printf(5+"Hello World"); output: World
```

```
    return 0;
```

```
}
```

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

```
int main()
```

```
{
```

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

```
    if(str1==str2)
```

```
        printf("World");
```

```
    else
```

```
        printf("Energy"); // output: Energy
```

```
    return 0;
```

```
}
```

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

```
int main()
```

```
{
```

```

    printf("%c","ayan"[2]); // output: a
    return 0;
}

```

```

#include <stdio.h>

int main()
{
    char str[8]="strings";
    char str1[7]="strings";
    printf("%c\n",str[0]); // s
    printf("%s\n",str);    // strings
    printf("%s\n",str1);   // unpredictable
    return 0;
}

```

```

#include <stdio.h>

int main()
{
    printf("%ld %ld %ld",sizeof(3),sizeof('3'),sizeof("3")); // dependent on compiler
    // 32b compiler  2 2 2
    return 0;
}

```

```

// Difference between them ? is clear?
char *p="ayan dey";

```

```
char p[]="ayan dey";
```

```
// ASCII based codes
```

```
/*
```

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

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

```
int main()
```

```
{
```

```
    char str[20], str1[30], str2[]="ayan saha", str3[]="ayan das";
```

```
    int l;
```

```
    puts("\nenter a string");
```

```
    gets("%s",str); // ayan dey
```

```
    l=strlen(str); // 8
```

```
    strcpy(str1, str); // copies the string from str to str1
```

```
    l=strcmp(str3, str2); // abc - abd => 97 98 99    abcd - abdx l= (c-d)
```

```
        //          97 98 100
```

```

//      0 0 -1
// if l contains any non zero value then both string are not equal

strrev(str1);
strcat("ayan","dey"); => "ayandey"
return 0;
} */

```

```

// WAP that will convert all small characters to capitals
// aYaN =>  AYAN
// a= 97 then z= 97+25 =122
// A=65 then Z= 65+25 = 90

```

```

#include <stdio.h>

int main()
{
    char str1[30], l, *p;
    puts("\nenter a string");
    gets("%s",str);
    p=str1;

    while(*p!='\0')
    {

```

```
        if(*p>=97 && *p<=122) //small hand characters
            *p=*p-32;
        p++;
    }
}
```

//CAPS to small

```
#include <stdio.h>

int main()
{
    char str1[30], l, *p;
    puts("\nenter a string");
    gets("%s",str);
    p=str1;

    while(*p!='\0')
    {
        if(*p>=65 && *p<=90) //caps characters
            *p=*p+32;
        p++;
    }
}
```

//TOGGLE case | AyaN => aYAn

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

```
int main()
```

```
{
```

```
    char str1[30], l, *p;
```

```
    puts("\nenter a string");
```

```
    gets("%s",str);
```

```
    p=str1;
```

```
    while(*p!='\0')
```

```
    {
```

```
        if(*p>=65 && *p<=90) // CAPS
```

```
            *p=*p+32;
```

```
        if(*p>=97 && *p<=122) // scanning for small characters
```

```
            *p=*p-32;
```

```
        p++;
```

```
    }
```

```
}
```

```
// Play with Esc
```

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

```
int main()
```

```
{
```

```
    char ch;
```

```
    int a, b, c;
```

```
    do{
```

```
        puts("Program of Addition. Press Esc to exit from the loop..");
```

```
        scanf("%d%d", &a, &b);
```

```
        c=a+b;
```

```
        printf("\nsum is %d",c);
```

```
        puts("Do you want to continue? if yes press any key else Press escape to exit..");
```

```
        scanf("%c", &ch);
```

```
    }while(ch!=27);
```

```
    return 0;
```

```
}
```