

C-70 → Program to convert a string from uppercase to lower case

* Some of these functions are not standard C functions

strlwr(), strupr(), strrev()

* This can be mainly used in older version of Microsoft C.

* GCC compiler, etc some other compilers will not run these functions.

UPPER CASE to Lower Case:

Ex: J E N N Y Ex: J e N n Y
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
j e n n y j e n n y

Ex: J E N N Y # 1 2 3
↓ ↓ ↓ ↓ ↓ 1 1 1
j e n n y # 1 2 3

* strlwr(char *str)
{
 // pointer to same string(str)
}

str
J e n n y

char *strlwr(char *str)
// pointer to same string

Program [using strlen() & strcpy()]

```
char s1[30] = "Jenny";
strlen(s1);
printf("%i.S", s1);
```

To lowercase

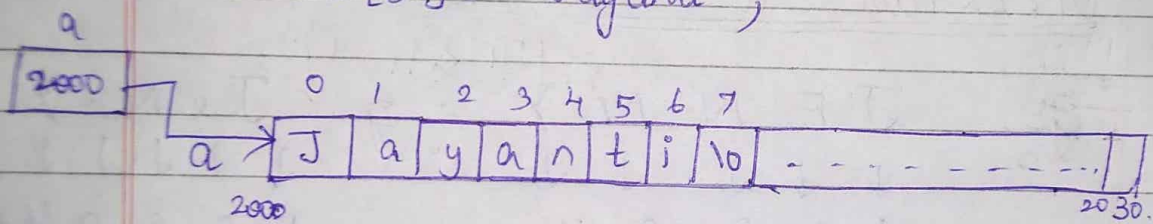
(or)

```
char s1[30] = "Jenny";
strupr(s1);
printf("%i.S", s1);
```

To uppercase

Program [without using string function]

```
char s1[30] = "Jayanti";
```



ASCII values:-

65	A = 65	↔ ³²	a = 97
66	B = 66	↔ ³²	b = 98
67	C = 67	↔ ³²	c = 99
97			
98			
99			
122	Z = 122	↔ ³²	a = 97

* First check difference of upper and lower case

* Both have difference (32).

```
for (i = 0; s1[i] != '\0'; i++)
```

```
if (s1[i] >= 'A' && s1[i] <= 'Z')
```

```
    s1[i] = s1[i] + 32;
```

```
    printf("%i.S", s1);
```

CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 1 - convert string to lower or upper case without using
4  strlwr() andstrupr() string functions **/
5  int main()
6  {
7      int i;
8      char s[30];
9      printf("Enter String:\n");
10     gets(s);
11     for(i=0;s[i]!=0;i++)
12     {
13         //if(s[i]>=65 && s[i]<=90)
14         if(s[i]>='A' && s[i]<='Z')
15         {
16             s[i]=s[i]+32;
17         }
18     }
19     printf("Lower case string:\n");
20     puts(s);
21     getch();
22 }
23
```

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```
Enter String:
JAYANTHI
Lower case string:
jayanthi
```

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```
Enter String:
Jayanthi@6
Lower case string:
jayanthi@6
```

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```
Enter String:
JAYANTHIsivaranjani@gmail.com
Lower case string:
jayanthisivaranjani@gmail.com
```


CODE 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4  /** 2 - convert string to lower or upper case using
5      strlwr() andstrupr() string functions **/
6  int main()
7  {
8      char a[30];
9      printf("Enter String:\n");
10     gets(a);
11     strlwr(a);
12     printf("LowerCase String:\n");
13     puts(a);
14     getch();
15 }
16
```

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```
Enter String:
JAYANTHIsivaranjani@gmail.com
LowerCase String:
jayanthisivaranjani@gmail.com
```

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4  /** 2 - convert string to lower or upper case using
5   * strlwr() and strupr() string functions **/
6  int main()
7  {
8      char a[30];
9      printf("Enter String:\n");
10     gets(a);
11     //strlwr(a);
12     strupr(a);
13     printf("LowerCase String:\n");
14     puts(a);
15     getch();
16 }
17
```

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```
Enter String:
jayanthi
LowerCase String:
JAYANTHI
```