

C library function - atol()

Description

The C library function **long int atol(const char *str)** converts the string argument **str** to a long integer (type long int).

Declaration

Following is the declaration for atol() function.

```
long int atol(const char *str)
```

Parameters

- **str** – This is the string containing the representation of an integral number.

Return Value

This function returns the converted integral number as a long int. If no valid conversion could be performed, it returns zero.

Example

The following example shows the usage of atol() function.

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

int main () {
    long val;
    char str[20];

    strcpy(str, "98993489");
    val = atol(str);
    printf("String value = %s, Long value = %ld\n", str, val);

    strcpy(str, "tutorialspoint.com");
    val = atol(str);
    printf("String value = %s, Long value = %ld\n", str, val);
}
```

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```
return(0);  
}
```

Let us compile and run the above program, this will produce the following result –

```
String value = 98993489, Long value = 98993489  
String value = tutorialspoint.com, Long value = 0
```