

Description

The C library function **double cos(double x)** returns the cosine of a radian angle **x**.

Declaration

Following is the declaration for cos() function.

```
double cos(double x)
```

Parameters

x -- This is the floating point value representing an angle expressed in radians.

Return Value

This function returns the cosine of x.

Example

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

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

#define PI 3.14159265

int main ()
{
    double x, ret, val;

    x = 60.0;
    val = PI / 180.0;
    ret = cos( x*val );
    printf("The cosine of %lf is %lf degrees\n", x, ret);

    x = 90.0;
    val = PI / 180.0;
    ret = cos( x*val );
    printf("The cosine of %lf is %lf degrees\n", x, ret);

    return(0);
}
```