

TRENDING POSTS

C Program to find Volume and Surface Area of a Cone

Execute Package Task in SSIS

Python reverse List Function

MySQL COS Function

Update Strategy Transformation in Informatica

Java Program to Calculate Electricity Bill

Informatica Workflow Monitor

MySQL LCASE Function

Static Cursor in SQL Server

C Program to Print Star Pyramid Pattern

SIN Function in C

The C sin Function is a C Math Library Function, used to calculate the Trigonometry Sine value for the specified expression. The syntax of the sin in C Programming is

```
double sin(double number);
```

The SIN function in C will return the value between -1 and 1. Before we get into the syntax of a SIN function in C, Let us see the mathematical formula behind this Trigonometry Sine function:

sin(x) = Length of the Opposite Side / Length of the Hypotenuse

TIP : Please refer to the C ASIN Function article to calculate the Arc Sine of a specified expression.

SIN Function in C Example

The sin function in the math library allows you to calculate the trigonometric Sine for the specified values. This program, ask the user to enter his/her own value, and then it will find the sine value of the user-specified value

```
/* Example for SIN Function in C Programming */
#include <stdio.h>
#include <math.h>

int main()
{
    double sinValue, number;
    printf(" Please Enter the Value to calculate Sine : ");
    scanf("%lf", &number);

    sinValue = sin(number);

    printf("\n The Sine value of %lf = %f ", number, sinValue);

    return 0;
}
```

OUTPUT

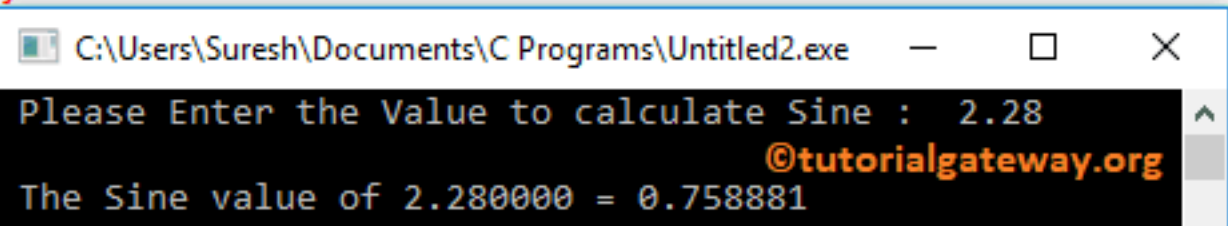
```
/* Example for SIN Function in C Programming */
#include <stdio.h>
#include <math.h>

int main()
{
    double sinValue, number;
    printf(" Please Enter the Value to calculate Sine : ");
    scanf("%lf", &number);

    sinValue = sin(number);

    printf("\n The Sine value of %lf = %f ", number, sinValue);

    return 0;
}
```



C SINE Function Example 2

This example allow the user to enter the value in degrees, and then we are converting the degrees to Radians. And finally, we are finding the sine value of the radian

```
/* Example for SIN Function in C Programming */
#include <stdio.h>
#include <math.h>

#define PI 3.14159
int main()
{
    double sinValue, radianVal, degreeVal;
    printf(" Please Enter an Angle in degrees : ");
    scanf("%lf", &degreeVal);

    // Convert Degree Value to Radian
    radianVal = degreeVal * (PI/180);
    sinValue = sin(radianVal);

    printf("\n The Sine value of %f = %f ", degreeVal, sinValue);

    return 0;
}
```

OUTPUT

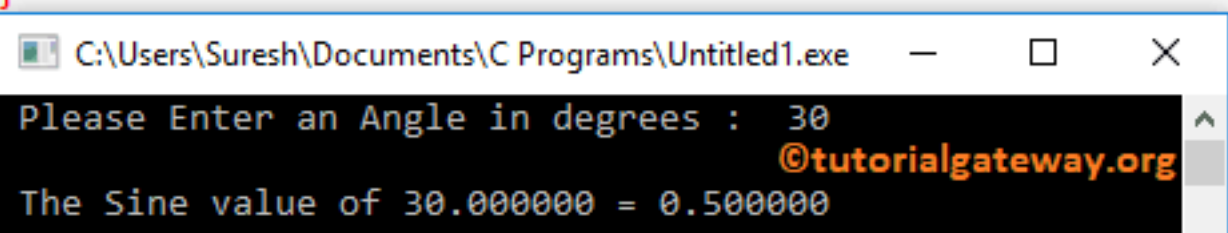
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    scanf("%lf", &degreeVal);

    // Convert Dgree Value to Radian
    radianVal = degreeVal * (PI/180);
    sinValue = sin(radianVal);

    printf("\n The Sine value of %f = %f ", degreeVal, sinValue);

    return 0;
}
```



Placed Under: C Programming