

C LIBRARY FUNCTION - SQRT

http://www.tutorialspoint.com/c_standard_library/c_function_sqrt.htm

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Description

The C library function **double sqrt***double*x returns the square root of **x**.

Declaration

Following is the declaration for sqrt function.

```
double sqrt(double x)
```

Parameters

- **x** – This is the floating point value.

Return Value

This function returns the square root of x.

Example

The following example shows the usage of sqrt function.

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

int main ()
{
    printf("Square root of %lf is %lf\n", 4.0, sqrt(4.0) );
    printf("Square root of %lf is %lf\n", 5.0, sqrt(5.0) );

    return(0);
}
```

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

```
Square root of 4.000000 is 2.000000
Square root of 5.000000 is 2.236068
```

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