

## C library function - sqrt()

### 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);
}
```

[Live Demo](#)

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
```