

C++ Math sqrt()

This function finds the square root of a given number.

Consider a argument 'arg' :

square_root of a number= $\sqrt{\text{arg}}$

Syntax

Syntax would be :

```
double sqrt(double arg);  
float sqrt(float arg);  
long double sqrt(long double arg);  
double sqrt(integral arg);
```

Parameter

arg: It is the value of float or integer type.

Return value

It returns the square root of the argument arg.

Example 1

Let's see a simple example when argument 'arg' is of integer type.

```
#include <iostream>  
#include <cmath>
```

```
using namespace std;

int main()
{ int arg=16;
  std::cout << "Square root of a number is :." <<sqrt(arg);
  return 0;
}
```

Output:

Square root of a number is :

Example 2

Let's see a simple example when argument 'arg' is of float type

```
#include <iostream>
#include<cmath>
using namespace std;
int main()
{float arg=8.5;
  std::cout << "Square root of a number is :." <<sqrt(arg);
  return 0;
}
```

Output:

Square root of a number is :2.91548

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