

## examples/squareRoot.c

```
1  #include <stdio.h>
2  #include <math.h>
3
4  // Function to calculate the square root of a number
5
6  int main() {
7      double number, result;
8
9      // Prompt the user for input
10     printf("Enter a number to find its square root: ");
11     scanf("%lf", &number);
12
13     // Check if the number is non-negative
14     if (number < 0) {
15         printf("Error: Cannot compute the square root of a negative number.\n");
16         return 1;
17     }
18
19     // Calculate the square root
20     result = sqrt(number);
21
22     // Display the result
23     printf("The square root of %.3f is %.3f\n", number, result);
24
25     return 0;
26 }
```