

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 }
```