

**area\_square.c**

```
1 #include <stdio.h>
2
3 /*
4 ****
5 * Write a C program to calculate the area of a square
6 * given the length of its side entered by the user
7 ****
8 */
9
10 int main(){
11     // using int variable
12     int side, area;
13     // Prompt user for input
14     printf("Enter the length of the side of the square: ");
15     // Read user input
16     scanf("%d", &side);
17     // Calculate area
18     area = side * side;
19     // Display result
20     printf("The area of the square with side %d is %d\n", side, area);
21     return 0;
22 }
23
24 /*
25 ****
26 * Sample Output:
27 * Enter the length of the side of the square: 5
28 * The area of the square with side 5 is 25
29 ****
30 */
```