## AREA OF TRIANGLE

## CODE

```
#include <stdio.h>
2 #include <math.h>
3 double area_of_triangle(double, double, double);
4 int main()
5 - {
     double a, b, c, area;
     printf("Enter the lengths of sides of a triangle\n");
      scanf("%1f%1f%1f", &a, &b, &c);
     area = area of triangle(a, b, c);
10
     printf("Area of the triangle = %.21f\n", area);
11
    return 0;
12 }
13 double area of triangle(double a, double b, double c)
14 - {
15
    double s, area;
16
    s = (a+b+c)/2;
17
    area = sqrt(s*(s-a)*(s-b)*(s-c));
18
    return area;
19
20
```

## OUTPUT

```
Enter the lengths of sides of a triangle 5 6 7
Area of the triangle = 14.70
```

HANDWRITTEN PROGRAM

```
Assoc of triangle by taking sides as input
 # include (stdio.h)
 # include (math: h)
 double area of triangle (double, double, double),
 int main ()
 & double a, b, c, area;
    prints (66 Enter the lengths of sides of triangle \n");
    Scanf (66 % lf % lf 1/ lf", & a, & b, & c);
    area = area_of_triangle (a,b,c);
    printf ("Area of briangle = % 0. ) If \n", area);
 3 retwin 0;
 double area of triangle (double a, double b, double c)
 & double s, area;
   S = (a+b+c)/2;
   area = sqrt (s*(s-a)*(s-b) *(s-c));
return area;
```