Aim:

Write a program to find the area of a triangle using Heron's formula.

During execution, the program should print the following message on the console:

```
sides:
```

For example, if the user gives the following as **input** (input is positive floating decimal point numbers):

```
sides: 2.3 2.4 2.5
```

Then the program should **print** the result round off upto 2 decimal places as:

```
area: 2.49
```

Instruction: Your input and output layout must match with the sample test cases **(values as well as text strings)**.

The area of a triangle is given by $Area = \sqrt{p(p - a)(p - b)(p - c)}$, where p is half of the perimeter, or (a + b + c) / 2. Let a,b,c be the lengths of the sides of the given triangle.

Hint: Use sqrt function defined in math.h header file

Source Code:

Program313.c

```
#include<stdio.h>
#include<math.h>
int main()
{
    float a,b,c,s;
    float farea;
    printf("sides: ");
    scanf("%f%f%f",&a,&b,&c);
    s=(a+b+c)/2.0;
    farea =sqrt(s*(s-a)*(s-b)*(s-c));
    printf("area: %.2f",farea);
}
```

Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
sides: 2.3 2.4 2.5
area: 2.49
```

	Test Case - 2	
User Output		
sides: 2.6 2.7 2.8		

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area: 3.15

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