

Question 1)

In this task, you will help a farmer who wants to calculate the area of a rectangular field.

Inputs will be given as **floats** in the following order:

- Length of the field (in meters)
- Width of the field (in meters)

You must calculate the area in **decares** and print the result as a **float** with 2 digits after the decimal point.

Hint: 1 square meters = 0.001 decares

Important Note: In order not to lose any point redundantly, you must NOT use any argument for the `input()` function and comply with the output format.

Sample I/O:

Input:

10
20

Output:

0.20

Input:

12.3
45.6

Output:

0.56

SOLUTION

```
L=float(input())
W=float(input())
A=L*W*0.001
print("{:.2f}".format(A))
```

Question 2)

Sphere in a Cube

You are given a sphere that perfectly fits inside a cube such that the diameter of the sphere is equal to the edge length of the cube.

Write a program that calculates the absolute difference between the volume of the cube and the sphere. You should take the diameter of the sphere from the user as a **float** and print the result as a **float** with 2 digits after the decimal point.

Regulations & Hints

- You should take $\pi = 3.14$ while calculating the volume of the sphere.
- You can use the following line to print your result in proper format.
`print('%.2f' % your_result)`
- You should **NOT** print anything other than the result. Otherwise, your code will be graded as **ZERO**. Please verify your output should confirm with the below given sample: (Neither the string "Input:" nor "Output:" will be printed. You will print only a single floating point which is the volume difference)

SAMPLE I/O:

Input:
5.5
Output:
79.31

Input:
10.0
Output:
476.67

SOLUTION

```
diameter = float(input())
volume_of_sphere = float(4/3*3.14*(diameter/2)**3)
volume_of_cube = float(diameter**3)
result = float(volume_of_cube - volume_of_sphere)
print('%.2f' % result)
```

