# A test of "fundamentals of programming" – 20 November 2016

## Task 1. Price of housing

Write a program to **calculate the price of a new home** that has a **kitchen**, **bathroom** and **3 rooms**. **At the entrance** the program **gets** **the area of the kitchen** and **the smallest room**. You need to **calculate the surface area** of **individual premises**, **to find the total area**, knowing that:

        **The bathroom is smaller than half the smallest room.**

        **The second room is 10% greater than the smallest room.**

        **The third room is 10% larger than the second room.**

**To the total area**you have to **Add 5% to the corridor**of the **entrance program receives** and the **price per square metre**.

### Login

The input is read from the console and **contains exactly 3 lines**:

        **The first row**– the area of **the smallest room** – **a real number** in the interval **[1.00 .. 100.00]**

        **The second row**– the area of **the kitchen** – **a real number** in the interval **[1.00 .. 100.00]**

        **The third row**- **price per square metre** – **a real number** in the interval **[1.00 .. 1000.00]**

### Exit

To be printed on the console **the dwelling**, **formatted to the second character** after the decimal point.

### Sample input and output

|  |  |  |
| --- | --- | --- |
| **Login** | **Exit** | **Explanations** |
| 20  10  699.99 | 63356.09 | **The second room**= 20 + 10% = 22  **The third room**= 22 + 10% = 24.20  **The bathroom**= 20 / 2 = 10  **Total area**= 20 + 10 + 10 + 22 + 86.20 24.20 = + 5% = + 4.31 corridor 86.20 = 90.51  **Price**= 90.51 \* 699.99 = 63356.094900000004 |
| **Login** | **Exit** |  |
| 13.23  7.89  600 | 36726.67 |  |