☆ QUESTION-4(convert distances)

Create two classes DM and DB which store the value of distances. DM stores distances in metres and centimeters and DB in feet and inches. Write a program that can read values for the class objects and add one object of DM with another object of DB. Use a friend function to carry out the addition operation. The object that stores the results is a DM object and the result should be in metres and centimetres and display it.(1 ft=0.3m, 1 in=0.025m)

Sample output-

2

22

12

12

Sample output:

6.12

Explanation:

first line contains distance in metres.

Second line contains distance in centimetres.

third line contains distance in feet.

Fourth line line contains distance in inches

YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed.
The timer will pause up to 90 seconds for the tour. Start tour

Original code | C++

```
1
2
3  #include <iostream>
4  using namespace std;
5  class db;
6  class dm
7     {
8      int m,cm;
9      float total;
10     public:
11     void get()
```

```
    friend dm add(dm,db);
    void display()
        {
        cout<<total;
    }
};
class db
    {
    int ft,in;
    public:
    void input()
        {
        cin>>ft>>in;
    }
    friend dm add(dm,db);
};
dm add(dm o1,db o2)
    {
    dm t;
    t.total=o1.m+(.01*o1.cm)+(0.3*o2.ft)+(0.025*o2.in);
    return t;
}
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    dm o1;
    db o2;
    dm o;
    o1.get();
    o2.input();
    o=add(o1,o2);
    o.display();
    return 0;
}
```

Line: 3 Col: 1

Test against custom input

Run Code | Submit code & Continue

(You can submit any number of times)

Download sample test cases *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*

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