

```
// Answer on Question#38278 - Programming - C++
```

```
#include <conio.h>
```

```
#include <iostream>
```

```
#include <math.h>
```

```
using namespace std;
```

```
// The amount of ounces in 1 pound
```

```
const int OUNCES_IN_POUND = 16;
```

```
// The amount of pounds in 1 kilogram
```

```
const double POUNDS_IN_KG = 2.2046;
```

```
// The amount of grams in kilogram
```

```
const int GR_IN_KG = 1000;
```

```
// Typing the input data in pounds and ounces
```

```
double input_data_in_pounds();
```

```
// Conversion pounds to kilograms
```

```
double calculate_kilograms(double);
```

```
// Displaying the converted weight
```

```
void output_data_in_kg(double);
```

```
// Asking user some question and get the answer 'y' or 'n'
```

```
char get_answer(const char *);
```

```
// The main function of the program - the entry point of the program
```

```
int main()
```

```
{
```

```
    system("cls");
```

```
    do
```

```
    {
```

```
        double pounds = input_data_in_pounds();
```

```
        output_data_in_kg(calculate_kilograms(pounds));
```

```
    }
```

```
    while (get_answer("Do you want to input one more for calculation? (y/n)") != 'n');
```

```
    return 0;
```

```
}
```

```
// Typing the input data in pounds and ounces
```

```
double input_data_in_pounds()
```

```
{
```

```
    cout << "Enter pounds: ";
```

```
    int pounds;
```

```
    cin >> pounds;
```

```
    cout << "Enter ounces: ";
```

```
    int ounces;
```

```
    cin >> ounces;
```

```
    return pounds + ounces / OUNCES_IN_POUND;
```

```
}
```

```
// Conversion of pounds to kilograms
```

```
double calculate_kilograms(double pounds)
```

```
{
```

```
        return pounds / POUNDS_IN_KG;
    }

// Displaying the converted weight
void output_data_in_kg(double kg)
{
    cout << "The converted weight is " << (int)kg << " kilograms " <<
        (int)(kg * GR_IN_KG) % GR_IN_KG << " grams" << endl << endl;
}

// Asking user some question (given in parameter 'question') and get the answer 'y' or 'n'
char get_answer(const char * question)
{
    cout << question << endl;
    char answer;
    do
        answer = getch();
    while (!(answer == 'y' || answer == 'n')); // Wait for the answer until answer is 'y' - yes or 'n' - no
    return answer;
}
```