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#include <iostream>
#include <iomanip>
using namespace std;

// This program will input American money and convert it to foreign currency

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// Prototypes of the functions
void convertMulti(float dollars, float& euros, float& pesos);
void convertMulti(float dollars, float& euros, float& pesos, float& yen);
float convertToYen(float dollars);
float convertToEuros(float dollars);
float convertToPesos(float dollars);
const float EURO = .89;
const float PESO = 19.19;
const float YEN = 109.89;
int main()
{
    float dollars;
    float euros;
    float pesos;
    float yen;

    cout << fixed << showpoint << setprecision(2);

    cout << "Please input the amount of American Dollars you want converted "
         << endl;
    cout << "to euros and pesos" << endl;
    cin >> dollars;

    // Fill in the code to call convertMulti with parameters dollars, euros, and pesos
    convertMulti(dollars, euros, pesos);
    // Fill in the code to output the value of those dollars converted to both euros
    // and pesos
    cout << "Euros: " << euros << "    Pesos: " << pesos << endl;
    cout << "Please input the amount of American Dollars you want converted\n";
    cout << "to euros, pesos and yen" << endl;
    cin >> dollars;

    // Fill in the code to call convertMulti with parameters dollars, euros, pesos and yen
    convertMulti(dollars, euros, pesos, yen);
    // Fill in the code to output the value of those dollars converted to euros,

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// pesos and yen
cout << "Euros: " << euros << "    Pesos: " << pesos << "    Yen: " << yen << endl;
cout << "Please input the amount of American Dollars you want converted\n";
cout << "to yen" << endl;
cin >> dollars;

// Fill in the code to call convertToYen
yen = convertToYen(dollars);
// Fill in the code to output the value of those dollars converted to yen
cout << "Yen: " << yen << endl;
cout << "Please input the amount of American Dollars you want converted\n";
cout << "to euros" << endl;
cin >> dollars;

// Fill in the code to call convert ToEuros
euros = convertToEuros(dollars);
cout << "Euros: " << euros << endl;
// Fill in the code to output the value of those dollars converted to euros

cout << "Please input the amount of American Dollars you want converted\n";
cout << "to pesos " << endl;
cin >> dollars;

// Fill in the code to call convertToPesos
pesos = convertToPesos(dollars);
cout << "Pesos: " << pesos << endl;

// Fill in the code to output the value of those dollars converted to pesos

return 0;
}

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// All of the functions are stubs that just serve to test the functions
// Replace with code that will cause the functions to execute properly

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// *****
// convertMulti
//
// task:   This function takes a dollar value and converts it to euros
//         and pesos
// data in: dollars
// data out: euros and pesos
//

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// *****

void convertMulti(float dollars, float& euros, float& pesos)
{
    cout << "The function convertMulti with dollars, euros and pesos "
        << endl << " was called with " << dollars << " dollars" << endl << endl;
    euros = convertToEuros(dollars);
    pesos = convertToPesos(dollars);
}

// *****
// convertMulti
//
// task: This function takes a dollar value and converts it to euros
// pesos and yen
// data in: dollars
// data out: euros pesos yen
//
// *****

void convertMulti(float dollars, float& euros, float& pesos, float& yen)
{
    cout << "The function convertMulti with dollars, euros, pesos and yen"
        << endl << " was called with " << dollars << " dollars" << endl << endl;
    euros = convertToEuros(dollars);
    pesos = convertToPesos(dollars);
    yen = convertToYen(dollars);
}

// *****
// convertToYen
//
// task: This function takes a dollar value and converts it to yen
// data in: dollars
// data returned: yen
//
// *****

float convertToYen(float dollars)
{
    cout << "The function convertToYen was called with " << dollars << " dollars"
        << endl << endl;
    dollars = YEN * dollars;
}
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    return dollars;
}

// *****
// convertToEuros
//
// task:      This function takes a dollar value and converts it to euros
// data in:    dollars
// data returned: euros
//
// *****

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float convertToEuros(float dollars)
{
    cout << "The function convertToEuros was called with " << dollars << " dollars" << endl <<
endl;

    dollars = EURO * dollars;
    return dollars;
}

```

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// *****
// convertToPesos
//
// task:      This function takes a dollar value and converts it to pesos
// data in:    dollars
// data returned: pesos
//
// *****

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float convertToPesos(float dollars)
{
    cout << "The function convertToPesos was called with " << dollars
        << " dollars" << endl;
    dollars = PESO * dollars;
    return dollars;
}

```