/* this program calculates the amount of change that a
* cashier should give back to a customer and the number
* of dollar bills, number of quarters number of dimes,
* number of nickels, and number of pennies
*/

#include <iostream>
using namespace std;

int main()
{
    double cost, // cost of the item
            money, // amount of money given to the cashier
            change; // change given back to the customer

    int dollars, quarters, dimes, nickels, pennies;
    int intChange;

    cout << "Enter the cost of the item: $"; 
    cin  >> cost;

    cout << "Enter money given to the cashier: $"; 
    cin  >> money;

    change = money - cost;

    // need to put it into total pennies
    // force a round because of how double converts to int
    intChange = static_cast<int>(change * 100 + 0.5);

    dollars = intChange / 100;
    intChange = intChange % 100;

    quarters = intChange / 25;
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    dimes = intChange / 10;
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    nickels = intChange / 5;
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    pennies = intChange;

    cout << "The person needs: $" << change << " back" 
        << endl;

    cout << "Change: " << endl;
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    change = money - cost;

    cout << "The person needs: $" << change << " back"
         << endl;

    cout << "Change: " << endl;
    cout << dollars << " dollars" << endl;
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    change = money - cost;

    // need to put it into total pennies
    intChange = static_cast<int>(change * 100);

    cout << "The person needs: $" << change << " back"
            << endl;

    cout << "Change: " << endl;
    cout << "dollars " << " dollars" << endl
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    // need to put it into total pennies
    intChange = static_cast<int>((change * 100));

    // dollars
    dollars = intChange / 100;

    cout << "The person needs: "$ << change << " back" 
    << endl;

    cout << "Change: " << endl;
    cout << dollars << " dollars" << endl 
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