

Chris Taylor
C++
Chapter 3
EX 14

```
/*
 * Monthly Sales Tax
 *
 * This program will prompt the user for the month, year,
 * and the amount of sales tax collected. It will then
 * output a report that calculates the various forms of
 * tax based on the current tax rates.
 */

#include <iostream>
#include <string>
#include <iomanip>

using namespace std;

int main()
{
    const double STATE_SALES_TAX_RATE = .04;
    const double COUNTY_SALES_TAX_RATE = .02;
    const int LABEL_WIDTH = 22;
    const int AMOUNT_WIDTH = 9;

    string month;
    int year;
    double amountCollected, sales, countyTax, stateTax;

    cout << "What year and months taxes are being calculated? ";
    cin >> year;
    cin >> month;
    cout << "What is the amount collected? ";
    cin >> amountCollected;
    cout << endl;

    countyTax = amountCollected * COUNTY_SALES_TAX_RATE;
    stateTax = amountCollected * STATE_SALES_TAX_RATE;
    sales = amountCollected - countyTax - stateTax;

    cout << "Date: " << month << " " << year << endl;
    cout << "-----" << endl;
    cout << setprecision(2) << fixed;
    cout << setw(LABEL_WIDTH) << left << "Total Collected:" << "$";
    cout << setw(AMOUNT_WIDTH) << right << amountCollected << endl;

    cout << setw(LABEL_WIDTH) << left << "Sales:" << "$";
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    cout << setw(AMOUNT_WIDTH) << right << sales << endl;

    cout << setw(LABEL_WIDTH) << left << "County Sales Tax:" << "$";
    cout << setw(AMOUNT_WIDTH) << right << countyTax << endl;

    cout << setw(LABEL_WIDTH) << left << "State Sales Tax:" << "$";
    cout << setw(AMOUNT_WIDTH) << right << stateTax << endl;

    cout << setw(LABEL_WIDTH) << left << "Total Sales Tax:" << "$";
    cout << setw(AMOUNT_WIDTH) << right << stateTax + countyTax <<
endl;
    return 0;
}

```

BU158-iMAC03:CH03 squall\$ g++ 14.cpp && ./a.out

What year and months taxes are being calculated? 2014 October

What is the amount collected? 25489.25

Date: October 2014

```

-----
Total Collected:    $ 25489.25
Sales:              $ 23959.90
County Sales Tax:    $   509.79
State Sales Tax:     $  1019.57
Total Sales Tax:     $  1529.36

```