// pgm3.cpp
// Programming Exercise 3 Solution
// 110A

// Produce employee salary report
#include <iostream>   // for cin, cout
using namespace std;

int main()
{
    const double PAY_INCREASE = 0.076;   // Declare variables
    double prev_annual_sal,
           annual_sal_incr,
           retro_pay,
           new_annual_sal,
           new_monthly_sal;
    // Input data
    cout << "Enter previous annual salary: ";
    cin >> prev_annual_sal;              // Do calculations
    annual_sal_incr = PAY_INCREASE * prev_annual_sal;
    retro_pay = annual_sal_incr * 0.5;
    new_annual_sal = prev_annual_sal + annual_sal_incr;
    new_monthly_sal = new_annual_sal / 12.0;
    // Output report
    cout << "\nPrevious annual salary: " << prev_annual_sal
         << "\nRetroactive pay due the employee: " << retro_pay
         << "\nNew annual salary: " << new_annual_sal
         << "\nNew monthly salary: " << new_monthly_sal << endl;
    return 0;
}

Run 1:
Enter previous annual salary: 100000
Previous annual salary: 100000
Retroactive pay due the employee: 3800
New annual salary: 107600
New monthly salary: 8966.67

Run 2:
Enter previous annual salary: 50000
Previous annual salary: 50000
Retroactive pay due the employee: 1900
New annual salary: 53800
New monthly salary: 4483.33

Note:
1. The entered data is shown in bold.
2. In the default mode for floating-point output, the precision is the total number of digits displayed. The precision defaults to 6.