// pgm5sol.cpp

// Produce employee salary report for multiple employees

#include <iostream> // for cin, cout
#include <cstring> // for strcmp()

using namespace std;

const double PAY_INCREASE1 = 0.076, // External(global) constants
    PAY_INCREASE2 = 0.065;

// Function Prototypes

double annual_salary_increase(double prev_annual_sal);

double new_annual_salary(double prev_annual_sal, double annual_sal_incr);

int main()
{
    double prev_annual_sal, // Local variables
        annual_sal_incr,
        retro_pay,
        new_annual_sal,
        new_monthly_sal;
    char emp_name[80];

    cout.setf(ios::fixed); // Format floating-point output
    cout.setf(ios::showpoint);
    cout.precision(2);

    cout << "Employee Salary Reports\n" << "Enter name of first employee (end to Quit): "; // Start first cycle
    cin.getline(emp_name, 80); // Priming input

    while (strcmp(emp_name, "end")) // Loop for each employee
    {
        cout << "Enter previous annual salary: ";
        cin >> prev_annual_sal; // Function Calls
        annual_sal_incr = annual_salary_increase(prev_annual_sal);
        retro_pay = annual_sal_incr * 0.5;
        new_annual_sal = new_annual_salary(prev_annual_sal, annual_sal_incr);
        new_monthly_sal = new_annual_sal / 12.0;

        cout << "\nEmployee's name: " << emp_name
        << "\nPrevious annual salary: " << prev_annual_sal
        << "\nAnnual salary increase: " << annual_sal_incr
        << "\nRetroactive pay due the employee: " << retro_pay
        << "\nNew annual salary: " << new_annual_sal
        << "\nNew monthly salary: " << new_monthly_sal;
        cin.get(); // Start next cycle
        cout << "\nEnter name of next employee (end to Quit): ";
        cin.getline(emp_name, 80);
    }

    cout << "\nEnd of Employee Salary Reports\n";
    return 0;
}
58 // Function Definitions
59 double annual_salary_increase(double prev_annual_sal)
60 {
61     if (prev_annual_sal <= 80000.)
62         return PAY_INCREASE1 * prev_annual_sal;
63     else
64         return PAY_INCREASE2 * prev_annual_sal;
65 }
66
double new_annual_salary(double prev_annual_sal, double annual_sal_incr)
{
    return prev_annual_sal + annual_sal_incr;
}

Sample Run:
Employee Salary Reports
Enter name of first employee (end to Quit): Jose Bartolo
Enter previous annual salary: 100000
Employee's name: Jose Bartolo
Previous annual salary: 100000.00
Annual salary increase: 6500.00
Retroactive pay due the employee: 3250.00
New annual salary: 106500.00
New monthly salary: 8875.00

Enter name of next employee (end to Quit): Alice Kellenberger
Enter previous annual salary: 80000
Employee's name: Alice Kellenberger
Previous annual salary: 80000.00
Annual salary increase: 6080.00
Retroactive pay due the employee: 3040.00
New annual salary: 86080.00
New monthly salary: 7173.33

Enter name of next employee (end to Quit): Pat Sweeney
Enter previous annual salary: 76000.34
Employee's name: Pat Sweeney
Previous annual salary: 76000.34
Annual salary increase: 5776.03
Retroactive pay due the employee: 2888.01
New annual salary: 81776.37
New monthly salary: 6814.70

Enter name of next employee (end to Quit): end
End of Employee Salary Reports