```
2 * AUTHOR : <u>Andrew Gharios</u>
3 * STUDENT ID : 1449366 & 1182192
4 * ASSIGNMENT #4 : Input & Output - New Salary
5 * CLASS : CS1A
6 * SECTION
            : MW 8AM-10:20AM
7 * DUE DATE : 3/29/21
9#include <iostream>
10 #include <iomanip>
11 using namespace std;
13 * New Salary Program
14 *
15 *
16 * This programs receive the user's name, current Salary and raise amount, and
17 * calculates the new Annual and Monthly payment as well as the retroactive
18 * payment based on the amount increase inputted.
19 *
20 * INPUT:
21 * name
            : The user's name.
22 * currentSalary : The current salary of the user.
23 * raise : User's percent increase.
24 *
25 * OUTPUT:
26 * name
            : User's Name
27* newAnnual : User's new annual salary.
28* newMonthly : User's new monthly salary.
29* retroActive : User's retroactive pay.
31
32 int main()
33 {
    34
     * CONSTANTS
35
36
37
     * OUTPUT - USED FOR CLASS HEADING
     * -----
38
    * PROGRAMMER : Programmer's Name

* CLASS : Student's Course

* SECTION : Class Days and Times
39
40
41
     * ASSIGNMENT #4 : Assignment's name.
42
43
     * ______
     * WEEKLY_PAY used to create a constant payment of 20 dollars per week.
44
     * -----
45
     * WEEKLY_PAY : Weekly payment to user's money.
46
47
     * ------
     * NAME SIZE used to save a constant size for namesizes.
48
49
     * ______
     * NAME_SIZE : size for name strings.
50
     * ______
51
     * SETW Column sizes.
52
     * ------
53
     * INPUT_COL : size for Input column.

* ANNUAL_COL : size for annual column.

* MONTHLY_COL : size for monthly column.

* RETRO_COL : size for retro column.
54
55
56
57
     58
    const char PROGRAMMER[] = "Andrew Gharios";
59
                        = "CS1A";
60
    const char CLASS[]
                        = "MW 8:00a - 10:30a";
    const char SECTION[]
61
    const char AS_NAME[]
                         = "Input & Output - New Salary";
62
```

```
63
    const int NAME_SIZE
64
                       = 30;
65
    const int INPUT_COL
                       = 29;
                       = 10;
= 19;
    const int ANNUAL_COL
66
    const int MONTHLY_COL
67
68
     const int RETRO COL
                        = 20;
69
70
71
    char
           name[NAME_SIZE]; // IN & OUT - Name of the user.
    currentSalary; // IN & CALC - user's current salary.
72
73
74
75
76
77
78
     79
     * OUTPUT - class heading
80
     ************************************
81
82
     cout << left;</pre>
     83
     cout << "* PROGRAMMED BY : " << PROGRAMMER << endl;</pre>
84
    85
86
87
     88
89
    cout << right;</pre>
90
91
     92
93
    // Input name.
94
     cout << left;</pre>
     cout << setw(INPUT_COL) << "What is your name? ";</pre>
95
96
     cin.getline (name, NAME SIZE);
97
98
    // Input current salary.
99
    cout << setw(INPUT_COL) << "What is your current salary? ";</pre>
100
    cin >> currentSalary;
101
102
    // Input pay increase.
    cout << setw(INPUT COL) << "What is your pay increase? ";</pre>
103
104
    cin >> raise;
105
    cin.ignore(10000, '\n');
106
    cout << endl << endl;</pre>
107
     cout << right;</pre>
108
109
     110
     * PROCESSING: Program calculates the user's new annual and monthly salary
111
     * as well as the retroactive pay based on user's input.
112
113
     raiseAmount = currentSalary * raise;
114
115
     newAnnual = currentSalary + raiseAmount;
     newMonthly = newAnnual / 12;
116
117
     retroActive = raiseAmount / 12 * 6;
118
     119
120
     * OUTPUT: Outputs user's name, new annual & monthly salary, and
     * retroactive pay.
121
122
123
     * Expected Output:
     * ********************************
124
```

```
main.cpp
```

```
* PROGRAMMED BY : Andrew Gharios
125
       * CLASS : CS1A
* SECTION : MW 8:00a - 10:30a
126
127
128
       * ASSIGMENT #4 : Input & Output - New Salary
       ***************
129
130
131
     What is your name?
                                 Jean Cyr
     What is your current salary? 80000
132
133
       What is your pay increase? .05
134
135
     Jean Cyr's SALARY INFORMATION
136
       New Salary Monthly Salary <u>Retroactive</u> Pay
137
138
       84000.00
                           7000.00
                                              2000.00
139
140
141
142
       What is your name?
                                  Abe Lincoln
143
       What is your current salary? 5000
144
       What is your pay increase? .07
145
146
       Abe Lincoln's SALARY INFORMATION
147
      New Salary Monthly Salary Retroactive Pay
148
         5350.00
                            445.83
149
                                               175.00
150
151
152
153
       What is your name?
                                 Jose Martinez
       What is your current salary? 125125
154
155
       What is your pay increase? .25
156
157
158
       Jose Martinez's SALARY INFORMATION
      New Salary Monthly Salary <u>Retroactive</u> Pay
159
160
       156406.25
                          13033.85
                                             15640.62
161
       162
163
164
      cout << fixed;</pre>
165
      cout << setprecision(2);</pre>
      cout << name << "\'s SALARY INFORMATION" << endl;</pre>
166
167
168
      // Outputting columns for results.
      cout << "New Salary"</pre>
169
           << setw(MONTHLY_COL) << "Monthly Salary"
170
171
           << setw(RETRO_COL) << "Retroactive Pay" << endl;
172
      // Outputting results.
173
174
      cout << setw(ANNUAL_COL) << newAnnual</pre>
           << setw(MONTHLY_COL) << newMonthly
175
176
           << setw(RETRO_COL) << retroActive;
177
178
179
      return 0;
180 }
181
```