

softwareArchitect.cpp

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1 /*****
2  * AUTHOR      : Saul Moreno
3  * STUDENT ID  : 269491
4  * ASSIGNMENT# : 2
5  * CLASS       : CS1C
6  * SECTION     : MW 5:00pm
7  * DUE DATE    : 1/29/2020
8  *****/
9
10 #include "softwareArchitect.h"
11
12 SoftwareArchitect::SoftwareArchitect()
13 {
14     departmentNumber = 0;
15     salaryPercentInc = 0;
16     numExp           = 0;
17 }
18
19 SoftwareArchitect::~SoftwareArchitect()
20 {
21
22 }
23
24 /*****
25 *FUNCTION - SetInitial
26 *
27 *This function set the initial values for the employee
28 *
29 *PRE-CONDITIONS
30 * eName : has to be previously defined.
31 * dNum  : has to be previously defined.
32 * sName : has to be previously defined.
33 * sPer  : has to be previously defined.
34 * nExp  : has to be previously defined.
35 *POST-CONDITIONS
36 * employeeName - sets the new value for employee's name.
37 * departNumber - sets the new value for employee's department number.
38 * supervisorName - sets the new value for employee's supervisors name.
39 * salaryPercentInc - sets the new value for employee's salary % increase.
40 * numExp - sets the new value for employee's # of experience.
41 *****/
42 void SoftwareArchitect::SetInitial(string eName, int dNum, string sName,
43                                     int sPer, int nExp)
44 {
45     Employee::ChangeEmployeesName(eName);
46     departmentNumber = dNum;
47     supervisorName = sName;
48     salaryPercentInc = sPer;
49     numExp = nExp;
50 }
51
52 /*****
53 *FUNCTION - ChangeDepartNum
54 *
55 *This function changes the employee's department number.
56 *
57 *PRE-CONDITIONS
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58 * dNum: has to be previously defined.
59 *
60 *POST-CONDITIONS
61 * departNumber- sets the new value for employee's department number.
62 *
63 *****/
64 void SoftwareArchitect::ChangeDepartNum(int dNum)
65 {
66     departmentNumber = dNum;
67 }
68
69 /*****
70 *FUNCTION - ChangeSuperName
71 *
72 *This function change the employee's supervisors name.
73 *
74 *PRE-CONDITIONS
75 * sName: has to be previously defined.
76 *
77 *POST-CONDITIONS
78 * supervisorName- sets the new value for employee's supervisors name.
79 *
80 *****/
81 void SoftwareArchitect::ChangeSuperName(string sName)
82 {
83     supervisorName = sName;
84 }
85
86 /*****
87 *FUNCTION - ChangeSalPer
88 *
89 *This function will change the employee's salary percent increase.
90 *
91 *PRE-CONDITIONS
92 *sName: has to be previously defined.
93 *
94 *POST-CONDITIONS
95 *supervisorName- sets the new value for employee's supervisors name.
96 *
97 *****/
98 void SoftwareArchitect::ChangeSalPer(int sPer)
99 {
100     salaryPercentInc = sPer;
101 }
102
103 /*****
104 *FUNCTION - ChangeNumExp
105 *
106 *This function will change the number of years of experience that the
107 *employee has.
108 *
109 *PRE-CONDITIONS
110 * nExp: has to be previously defined.
111 *
112 *POST-CONDITIONS
113 * numExp - sets the new value for employee's # of experience.
114 *
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115 *****/
116 void SoftwareArchitect::ChangeNumExp(int nExp)
117 {
118     numExp = nExp;
119 }
120
121 *****/
122 *FUNCTION - DisplayTable
123 *
124 *This function will print out the table heading.
125 *
126 *PRE-CONDITIONS
127 * This is a void function
128 *
129 *POST-CONDITIONS
130 * This will not change anything member variables
131 *
132 *****/
133 void SoftwareArchitect::DisplayTable() const
134 {
135     #include <iomanip>
136     cout << left;
137
138     cout << setw(SET_NAME) << "Name" << setw(SET_ID) << "Department"
139         << setw(17) << "Supervisor Name" << setw(6) << "Raise"
140         << setw(SET_GEN) << "Years of Experience" << endl;
141     cout << right;
142 }
143
144 *****/
145 *FUNCTION - Display
146 *
147 *This function will print out all the information that was stored.
148 *
149 *PRE-CONDITIONS
150 * This is a void function
151 *
152 *POST-CONDITIONS
153 * This will not change anything member variables
154 *
155 *****/
156 void SoftwareArchitect::Display() const
157 {
158     #include <iomanip>
159     cout << left;
160
161     cout << setw(SET_NAME) << employeeName << setw(SET_ID) << departmentNumber
162         << setw(17) << supervisorName << setw(6) << salaryPercentInc
163         << setw(SET_GEN) << numExp << endl;
164     cout << right;
165 }
166
```