employee.cpp

```cpp
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 "employee.h"
11
12 Employee::Employee()
13 {
14     employeeName = "Saul Moreno";
15     employeeId = 255;        // - sets employee's id
16     phoneNumber = "523-545-5254";
17     employeeAge = 0;        // - sets employee's age
18     employeeGender = 'M'; // - sets employee's gender
19     employeeTitle = " ";
20     employeeSalary = 0;    // - holds employee's salary
21     hireDate = "12/12/21";
22 }
23
24 Employee::~Employee()
25 {
26
27 }
28
29 /*****************************************************************************
30 *FUNCTION - SetInitial
31 *_____
32 *This function set the initial values for the employee
33 *_____
34 *PRE-CONDITIONS
35 * eName  : has to be previously defined.
36 * eId    : has to be previously defined.
37 * ePhone : has to be previously defined.
38 * eAge   : has to be previously defined.
39 * eGender: has to be previously defined.
40 * eTitle : has to be previously defined.
41 * eSalary: has to be previously defined.
42 * eHire  : has to be previously defined.
43 *POST-CONDITIONS
44 * employeeName  - sets the new value for employee's name.
45 * employeeId    - sets the new value for employee's id.
46 * phoneNumber   - sets the new value for employee's phone number.
47 * employeeAge   - sets the new value for employee's age.
48 * employeeGender - sets the new value for employee's gender.
49 * employeeTitle  - sets the new value for employee's title.
50 * employeeSalary - sets the new value for employee's salary
51 * hireDate      - sets the new value for employee's hire date.
52 *****************************************************************************/
53 void Employee::SetInitial(string eName, int eId, string ePhone, int eAge,
54                     char eGender, string eTitle, double eSalary, string eHire)
55 {
56     employeeName = eName;
57     employeeId = eId;
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58      phoneNumber = ePhone;
59      employeeAge = eAge;
60      employeeGender = eGender;
61      employeeTitle = eTitle;
62      employeeSalary = eSalary;
63      hireDate = eHire;
64 }
65
66 /***************************************************************************
67 *FUNCTION - ChangeEmployeesName
68 *_____
69 *This function will change the employee's name.
70 *_____
71 *PRE-CONDITIONS
72 * eName: has to be previously defined.
73 *
74 *POST-CONDITIONS
75 * employeeName - sets the new value for employee's name.
76 *
77 ***************************************************************************/
78 void Employee::ChangeEmployeesName(string eName)
79 {
80      employeeName = eName;
81 }
82
83 /***************************************************************************
84 *FUNCTION - ChangeEmployeesId
85 *_____
86 *This function will change the employee's ID.
87 *_____
88 *PRE-CONDITIONS
89 * eId: has to be previously defined.
90 *
91 *POST-CONDITIONS
92 * employeeId - sets the new value for the employee's ID.
93 *
94 ***************************************************************************/
95 void Employee::ChangeEmployeesId(int eId)
96 {
97      employeeId = eId;
98 }
99
100 /***************************************************************************
101 *FUNCTION - ChangeEmployeesPhone
102 *_____
103 *This function changes the employee's phone number.
104 *_____
105 *PRE-CONDITIONS
106 * ePhone: has to be previously defined.
107 *
108 *POST-CONDITIONS
109 * phoneNumber - sets the new value for the employee's phone number.
110 *
111 ***************************************************************************/
112 void Employee::ChangeEmployeesPhone(string ePhone)
113 {
114      phoneNumber = ePhone;
```

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115 }
116
117 /****************************************************************************
118 *FUNCTION - ChangeEmployeesAge
119 *_____
120 *This function changes the employee's age.
121 *_____
122 *PRE-CONDITIONS
123 * eAge: has to be previously defined.
124 *
125 *POST-CONDITIONS
126 * employeeAge - sets the new value for the employee.
127 *
128 ****************************************************************************/
129 void Employee::ChangeEmployeesAge(int eAge)
130 {
131     employeeAge = eAge;
132 }
133
134 /****************************************************************************
135 *FUNCTION - ChangeEmployeesGender
136 *_____
137 *This function will change the employee's gender.
138 *_____
139 *PRE-CONDITIONS
140 * eGender: has to be previously defined.
141 *
142 *POST-CONDITIONS
143 * employeeGender - sets the new value for employee's gender.
144 *
145 ****************************************************************************/
146 void Employee::ChangeEmployeesGender(char eGender)
147 {
148     employeeGender = eGender;
149 }
150
151 /****************************************************************************
152 *FUNCTION - ChangeEmployeesJobTitle
153 *_____
154 *This function will set employee's job title.
155 *_____
156 *PRE-CONDITIONS
157 * eTitle: has to be previously defined.
158 *
159 *POST-CONDITIONS
160 * employeeTitle - stores the new value for employee's job title.
161 *
162 ****************************************************************************/
163 void Employee::ChangeEmployeesJobTitle(string eTitle)
164 {
165     employeeTitle = eTitle;
166 }
167
168 /****************************************************************************
169 *FUNCTION - ChangeEmployeesSalary
170 *_____
171 *This function will change the employee's salary.
```

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172 *_____
173 *PRE-CONDITIONS
174 * eSalary: has to previously be defined.
175 *
176 *POST-CONDITIONS
177 * employeeSalary - stores the new value for employees salary.
178 *
179 ***************************************************************************/
180 void Employee::ChangeEmployeesSalary(double eSalary)
181 {
182     employeeSalary = eSalary;
183 }
184
185 /***************************************************************************
186 *FUNCTION - ChangeEmployeesHireDate
187 *_____
188 *This function will change the employee's hire date.
189 *_____
190 *PRE-CONDITIONS
191 * eHire: has to previously be defined.
192 *
193 *POST-CONDITIONS
194 * hireDate - stores the new value for the hire date.
195 *
196 ***************************************************************************/
197 void Employee::ChangeEmployeesHireDate(string eHire)
198 {
199     hireDate = eHire;
200 }
201
202 /***************************************************************************
203 *FUNCTION - DisplayTable
204 *_____
205 *This function will print out the table heading.
206 *_____
207 *PRE-CONDITIONS
208 * This is a void function
209 *
210 *POST-CONDITIONS
211 * This will not change anything member variables
212 *
213 ***************************************************************************/
214 void Employee::DisplayTable() const
215 {
216     #include <iomanip>
217     cout << left;
218
219     cout << setw(SET_NAME) << "Name" << setw(SET_ID) << "Employee's Id"
220          << setw(SET_PHONE) << "Phone" << setw(SET_AGE) << "Age"
221          << setw(SET_GEN) << "Gender" << setw(SET_TITLE) << "Job Title"
222          << setw(SET_SAL) << "Salary" << setw(SET_DATE) << "Date" << endl;
223     cout << right;
224 }
225
226 /***************************************************************************
227 *FUNCTION - Display
228 *_____
```

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229 *This function will print out all the information that was stored.
230 *_____
231 *PRE-CONDITIONS
232 * This is a void function
233 *
234 *POST-CONDITIONS
235 * This will not change anything member variables
236 *
237 ****************************************************************************/
238 void Employee::Display() const
239 {
240     #include <iomanip>
241
242     cout << left;
243     cout << setprecision(7);
244
245     cout << setw(SET_NAME) << employeeName
246          << setw(SET_ID) << employeeId
247          << setw(SET_PHONE) << phoneNumber
248          << setw(SET_AGE) << employeeAge
249          << setw(SET_GEN) << employeeGender
250          << setw(SET_TITLE) << employeeTitle
251          << '$'<< setw(SET_SAL) << employeeSalary
252          << setw(SET_DATE) << hireDate;
253     cout << right;
254     cout << setprecision(6);
255 }
256
```