

main.cpp

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1 /*****
2 * PROGRAMMER : Ali Eshghi
3 * STUDENT ID : 1112261
4 * CLASS      : CS1C
5 * SECTION    : MW 5pm
6 * Assign #1  : CS1C corporation
7 * DUE DATE   : 29 January 2020
8 *****/
9
10 #include "MyHeader.h"
11
12 /*****
13 * CS1C Corporation
14 *
15 * This program prints out the data from the list of the
16 * employee of the corporation using the classes method and
17 * Inheritance of the classes and passing the data through
18 * the method functions of the class
19 *
20 * INPUT: N/A
21 *
22 * OUTPUT: table of the employees with their information
23 *         (Name, Id, Phone #, Age, Gender, Job title,
24 *         Salary, Hire date) and then the programmers
25 *         information, same as the employees (with the
26 *         additional information of Department #,
27 *         supervisor's name, Raise Increase %, C++
28 *         knowledge, and Java knowledge) and the Software
29 *         Architect with the same information but
30 *
31 *
32 *****/
33
34 int main()
35 {
36     //Variables
37
38     date    date;          //PROCESS - date class type variable
39     employee employee;      //PROCESS - employee class type variable
40     programmer programmer;  //PROCESS - programmer class type variable
41     softArchitect;         //PROCESS - softArch class type variable
42
43
44
45     cout << "Data:" << endl;
46     cout << "CS1C Employees" << endl;
47
48     cout << left;
49     cout << setw(15) << "Name" << setw(9) << "ID" << setw(15)
50         << "Phone #" << setw(7) << "Age" << setw(9) << "Gender"
51         << setw(15) << "Job title" << setw(15) << "Salary"
52         << setw(15) << "Hire date" << endl;
53     cout << "-----";
54     cout << "-----";
55     cout << endl;
56 }
```

```
57 //passing the employees information
58 //to the methods to set the data
59
60 employee.setName("Tom Brady");
61 employee.setId("12345");
62 employee.setPhoneNumber("949-555-1234");
63 employee.setAge(42);
64 employee.setGender('M');
65 employee.setJobTitle("Quarterback");
66 employee.setSalary(8000000);
67 employee.setDate(31,8,2018);
68
69 //printing the information
70 employee.print();
71
72 //passing the employees information
73 //to the methods to set the data
74
75 employee.setName("Aaron Rodgers");
76 employee.setId("12346");
77 employee.setPhoneNumber("310-555-5555");
78 employee.setAge(36);
79 employee.setGender('M');
80 employee.setJobTitle("Quarterback");
81 employee.setSalary(770123);
82 employee.setDate(8,5,2019);
83
84 //printing the information
85 employee.print();
86
87 //passing the employees information
88 //to the methods to set the data
89
90 employee.setName("Oprah Winfrey");
91 employee.setId("98765");
92 employee.setPhoneNumber("703-703-1234");
93 employee.setAge(64);
94 employee.setGender('F');
95 employee.setJobTitle("Talk show Host");
96 employee.setSalary(9900000);
97 employee.setDate(25,12,2017);
98
99 //printing the information
100 employee.print();
101
102 //passing the employees information
103 //to the methods to set the data
104
105 employee.setName("Jay Leno");
106 employee.setId("77777");
107 employee.setPhoneNumber("203-555-6789");
108 employee.setAge(69);
109 employee.setGender('M');
110 employee.setJobTitle("Comedian");
111 employee.setSalary(500500);
112 employee.setDate(1,3,2012);
```

```

113
114 //printing the information
115 employee.print();
116
117 cout << endl << endl;
118
119
120 cout << "Programmers:" << endl;
121
122 //passing the programmers information
123 //to the employees methods to set the data
124
125 employee.setName("Sam Software");
126 employee.setId("54321");
127 employee.setPhoneNumber("819-123-4567");
128 employee.setAge(21);
129 employee.setGender('M');
130 employee.setJobTitle("Programmer");
131 employee.setSalary(223000);
132 employee.setDate(24,12,2017);
133
134 //passing the programmers information
135 //to the methods to set the data
136
137 programmer.setDepartmentNum("5432122");
138 programmer.setSupName("Joe Boss");
139 programmer.setPercentage(4);
140 programmer.cppIdentifier(true);
141 programmer.javaIdentifier(false);
142
143 cout << left;
144 cout << setw(15) << "Name" << setw(9) << "ID" << setw(15)
145 << "Phone #" << setw(7) << "Age" << setw(9) << "Gender"
146 << setw(15) << "Job title" << setw(15) << "Salary"
147 << setw(15) << "Hire date" << endl;
148 cout << "-----";
149 cout << "-----";
150 cout << endl;
151
152 //printing the employee informations of the programmer
153 employee.print();
154
155 //passing the programmers information
156 //to the employees methods to set the data
157
158 employee.setName("Mary Coder");
159 employee.setId("65432");
160 employee.setPhoneNumber("310-555-5555");
161 employee.setAge(28);
162 employee.setGender('F');
163 employee.setJobTitle("Programmer");
164 employee.setSalary(770123);
165 employee.setDate(8,2,2019);
166
167 //printing the employee informations of the programmer
168 employee.print();

```

```

169
170     cout << endl << endl;
171
172     cout << left;
173     cout << setw(14) << "Name" << setw(14) << "Department" << setw(22)
174         << "Supervisor's Name" << setw(12) << "Raise %" << setw(19) << "C++
Knowledge"
175         << "Java Knowledge" << endl;
176     cout << "-----";
177     cout << "-----";
178     cout << endl;
179
180     //printing programmers information
181     employee.setName("Sam Software");
182     programmer.printProgrammer();
183
184     //passing the programmers information
185     //to the methods to set the data
186
187     programmer.setDepartmentNum("6543222");
188     programmer.setSupName("Mary Leader");
189     programmer.setPercentage(7);
190     programmer.cppIdentifier(true);
191     programmer.javaIdentifier(true);
192
193
194     //printing programmers information
195     employee.setName("Mary Coder");
196     programmer.printProgrammer();
197
198     cout << endl << endl;
199
200
201     cout << "Software Architects:" << endl;
202
203     //passing the Software Architect information
204     //to the employees methods to set the data
205
206     employee.setName("Alex Arch");
207     employee.setId("88888");
208     employee.setPhoneNumber("819-123-4444");
209     employee.setAge(31);
210     employee.setGender('M');
211     employee.setJobTitle("Architect");
212     employee.setSalary(323000);
213     employee.setDate(24,12,2018);
214
215     //passing the Software Architect information
216     //to the methods to set the data
217
218     architect.setDepartmentNum("5434222");
219     architect.setSupName("Big Boss");
220     architect.setPercentage(5);
221     architect.setExperience(4);
222
223     cout << left;

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```
224 cout << setw(15) << "Name" << setw(9) << "ID" << setw(15)
225 << "Phone #" << setw(7) << "Age" << setw(9) << "Gender"
226 << setw(15) << "Job title" << setw(15) << "Salary"
227 << setw(15) << "Hire date" << endl;
228 cout << "-----";
229 cout << "-----";
230 cout << endl;
231
232 //printing the employee informations of the software Architect
233 employee.print();
234
235 //passing the Software Architect information
236 //to the employees methods to set the data
237
238 employee.setName("Sally Designer");
239 employee.setId("87878");
240 employee.setPhoneNumber("310-555-8888");
241 employee.setAge(38);
242 employee.setGender('F');
243 employee.setJobTitle("Architect");
244 employee.setSalary(870123);
245 employee.setDate(8,2,2013);
246
247 //printing the employee informations of the software Architect
248 employee.print();
249
250 cout << endl << endl;
251
252 cout << left;
253 cout << setw(13) << "Name" << setw(15) << "Department" << setw(22)
254 << "Supervisor's Name" << setw(12) << "Raise %"
255 << "Years of experience" << endl;
256 cout << "-----";
257 cout << "-----";
258 cout << endl;
259
260 //printing programmers information
261 employee.setName("Alex Arch");
262 architect.printSoftArch();
263
264 //passing the Software Architect information
265 //to the methods to set the data
266
267 architect.setDepartmentNum("6543422");
268 architect.setSupName("Big Boss");
269 architect.setPercentage(8);
270 architect.setExperience(11);
271
272 //printing programmers information
273 employee.setName("Sally Designer");
274 architect.printSoftArch();
275
276
277
278
279 return 0;
```

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```
280 }  
281  
282  
283  
284
```