```cpp
/***************************************************************************
 * PROGRAMMER : Ali Eshghi
 * STUDENT ID : 1112261
 * CLASS      : CS1C
 * SECTION    : MW 5pm
 * Assign #4  : Enhanced Employee
 * DUE DATE   : 26 Febuary 2020
 ***************************************************************************/

#include "MyHeader.h"

/***********************************************************
 * CS1C Corporation
 * _____
 * This program prints out the data from the list of the
 * employee of the corporation using the classes method and
 * Inheritance of the classes and passing the data through
 * the method functions of the class
 * _____
 * INPUT: N/A
 *
 * OUTPUT: table of the employees with their information
 *         (Name, Id, Phone #, Age, Gender, Job title,
 *         Salary, Hire date) and then the programmers
 *         information, same as the employees (with the
 *         additional information of Department #,
 *         supervisor's name, Raise Increase %, C++
 *         knowledge, and Java knowledge) and the Software
 *         Architect with the same information but
 *
 ***********************************************************/

int main()
{
    //Introduction

    cout << "/***********************************************************" << endl;
    cout << "* CS1C Corporation" << endl;
    cout << "* _____" << endl;
    cout << "* This program prints out the data from the list of the" << endl;
    cout << "* employee of the corporation using the classes method and" << endl;
    cout << "* Inheritance of the classes and passing the data through" << endl;
    cout << "* the method functions of the class" << endl;
    cout << "* _____" << endl;
    cout << "* INPUT: N/A" << endl;
    cout << "*" << endl;
    cout << "* OUTPUT: table of the employees with their information" << endl;
    cout << "*         (Name, Id, Phone #, Age, Gender, Job title," << endl;
    cout << "*         Salary, Hire date) and then the programmers" << endl;
    cout << "*         information, same as the employees (with the" << endl;
    cout << "*         additional information of Department #," << endl;
    cout << "*         supervisor's name, Raise Increase %, C++" << endl;
    cout << "*         knowledge, and Java knowledge) and the Software" << endl;
    cout << "*         Architect with the same information but" << endl;
    cout << "*" << endl;
    cout << "***********************************************************/" << endl;


```

```cpp
60      //Variables
61
62      date    date;        //PROCESS - date class type variable
63      employee    employee;   //PROCESS - employee class type variable
64      softTester  softTester1(" ", " ", " ", 0); //PROCESS - softTester
65                                          // class type variable
66      softTester  softTester2 = softTester1;  //PROCESS - calling the copy constructor
67
68
69      cout << "Software testers:" << endl << endl;
70
71      cout << left;
72      cout << setw(15)  << "Name"      << setw(9) << "ID"     << setw(15)
73          << "Phone #" << setw(7)      << "Age"    << setw(9) << "Gender"
74          << setw(15)  << "Job title" << setw(15) << "Salary"
75          << setw(15)  << "Hire date" << endl;
76      cout << "------------------------------------------------";
77      cout << "------------------------------------------------";
78      cout << endl;
79
80
81      //passing the employees information
82      //to the methods to set the data
83
84      employee.setName("Joe Calculus");
85      employee.setId("64879");
86      employee.setPhoneNumber("949-555-1234");
87      employee.setAge(42);
88      employee.setGender('M');
89      employee.setJobTitle("Math Wiz");
90      employee.setSalary(110000);
91      employee.setDate(31,8,2017);
92
93      //printing the information
94      employee.print();
95
96      //passing the employees information
97      //to the methods to set the data
98
99      employee.setName("Mary Algebra");
100     employee.setId("76309");
101     employee.setPhoneNumber("213-555-5555");
102     employee.setAge(22);
103     employee.setGender('F');
104     employee.setJobTitle("Math Helper");
105     employee.setSalary(170123);
106     employee.setDate(8,5,2017);
107
108     //printing the information
109     employee.print();
110
111     //passing the employees information
112     //to the methods to set the data
113
114     employee.setName("Joe Trig");
115     employee.setId("10192");
116     employee.setPhoneNumber("714-703-1234");
117     employee.setAge(29);
118     employee.setGender('F');
```

```cpp
119    employee.setJobTitle("Math Contact");
120    employee.setSalary(200000);
121    employee.setDate(25,12,2016);
122
123    //printing the information
124    employee.print();
125
126
127    cout << endl << endl;
128    cout << left;
129    cout << setw(15)  << "Name"      << setw(23) << "Address"    << setw(15)
130        << "City" << setw(7)      << "State"    << setw(9) << "Zip Code"
131        << endl;
132    cout << "_____";
133    cout << "_____";
134    cout << endl;
135
136    //passing the software Tester information
137    //to the employees methods to set the data
138
139    softTester1.setName("Joe calCules");
140    softTester1.changeAddress("1234 Main Avenue");
141    softTester1.changeCity("Laguna Niguel");
142    softTester1.changeState("CA");
143    softTester1.changeZipCode(92677);
144
145    //printing the employee informations of the software tester
146    softTester1.softTesterDisplay();
147
148    //passing the software Tester information
149    //to the employees methods to set the data
150
151    softTester1.setName("Mary Algebra");
152    softTester1.changeAddress("3333 Marguerite Pkwy");
153    softTester1.changeCity("Mission Viejo");
154    softTester1.changeState("CA");
155    softTester1.changeZipCode(92646);
156
157    //printing the employee informations of the software tester
158    softTester1.softTesterDisplay();
159
160    //passing the software Tester information
161    //to the employees methods to set the data
162
163    softTester1.setName("jo Trig");
164    softTester1.changeAddress("9876 Elm Street");
165    softTester1.changeCity("San Clemente");
166    softTester1.changeState("CA");
167    softTester1.changeZipCode(92672);
168
169    //printing the employee informations of the software tester
170    softTester1.softTesterDisplay();
171
172    //This also calls the copy constructor
173    softTester2 = softTester1;
174
175    return 0;
176 }
177
```

178