```cpp
/*****************************************************************************
 * AUTHOR      : Saul Moreno
 * STUDENT ID  : 269491
 * ASSIGNMENT# : 2
 * CLASS       : CS1C
 * SECTION     : MW 5:00pm
 * DUE DATE    : 1/29/2020
 *****************************************************************************/

#include "header.h"
#include "date.h"
#include "employee.h"
#include "programmer.h"
#include "softwareArchitect.h"
/*****************************************************************************
 * Employee-inheritance
 * ---------------------------------------------------------------------------
 * This program will output the class heading
 * ---------------------------------------------------------------------------
 * INPUT:
 *     <There is no input for this program - output data is obtained through
 *     the constant.>
 *
 * OUTPUT:
 *  <This program will output a class heading
 *****************************************************************************/
int main()
{
    Employee firstEmployee;    // variable that has access to the class
    Programmer programOne;     // variable that has access to the class
    SoftwareArchitect softOne; // variable that has access to the class

    //Calls the functions to print out class header
    PrintHeader("Employee-inheritance", 2, 'A');

    cout << "This Program will display the Data for the C1SCE Employee, The"
         << " Programmers" << endl
         << "and Software Architects. It will display all other pertinent data";
    cout << endl << endl;

    cout << "Data:" << endl << "C1SCEmployees\n\n";

    cout << "These two examples are me just setting the employee's information"
         << " automatically\n";
    //Calls function to display the table
    firstEmployee.DisplayTable();
    //Calls the function to set the initial values
    firstEmployee.SetInitial("Tom Brady",12345,"949-555-1234",42,'M',
                             "Quarterback",8000000,"8/31/2018");
    //Calls the functions to display the employee's information
    firstEmployee.Display();
    cout << endl;
    //Calls the function to set the initial values
    firstEmployee.SetInitial("Aaron Rogers", 12346, "310-555-5555",36,'M',
                             "Quarterback", 777123, "05/08/2019");
    //Calls the functions to display the employee's information
    firstEmployee.Display();
```

```
58
59      /*************************************************************************
60       * These functions call will change the values that the variables were
61       * set to
62       *************************************************************************/
63      cout << endl << endl;
64      cout << "This one is me manually changing the employee's information\n";
65      firstEmployee.ChangeEmployeesName("Tom Rogers");
66      firstEmployee.ChangeEmployeesId(354534);
67      firstEmployee.ChangeEmployeesPhone("959-432-4325");
68      firstEmployee.ChangeEmployeesAge(69);
69      firstEmployee.ChangeEmployeesGender('F');
70      firstEmployee.ChangeEmployeesJobTitle("Person");
71      firstEmployee.ChangeEmployeesSalary(0);
72      firstEmployee.ChangeEmployeesHireDate("12-12-12");
73
74      //Calls the functions to display the employee's information
75      firstEmployee.Display();
76      cout << endl;
77
78      cout << "\nBack to the information being added automatically\n\n";
79      firstEmployee.SetInitial("Oprah Winfrey", 98765, "730-703-1234",64,'F',
80                               "Talk Show Host", 9900000, "12/25/2017");
81      //Calls the functions to display the employee's information
82      firstEmployee.Display();
83      cout << endl;
84
85      //Calls the function to set the initial values
86      firstEmployee.SetInitial("Sally Designer", 77777, "203-555-6789",36,'M',
87                                  "Comedian", 500500, "03/01/2012");
88      //Calls the functions to display the employee's information
89      firstEmployee.Display();
90      cout << endl << endl;
91
92      cout << "Programmers:\n\n";
93
94      //Calls function to display the table
95      firstEmployee.DisplayTable();
96      //Calls the function to set the initial values
97      firstEmployee.SetInitial("Sam Software",54321,"819-123-4567",21,'M',
98                               "Programmer",223000,"12/24/2017");
99      //Calls the functions to display the employee's information
100     firstEmployee.Display();
101     cout << endl;
102     //Calls the function to set the initial values
103     firstEmployee.SetInitial("Mary Coder",65432,"310-555-5555",28,'F',
104                              "Programmer",770123,"02/08/2019");
105     //Calls the functions to display the employee's information
106     firstEmployee.Display();
107     cout << endl << endl;
108
109     //Calls function to display the table
110     programOne.DisplayTable();
111     //Calls the function to set the initial values
112     programOne.SetInitial("Sam Software", 5432122, "Joe Boss", 4, "Yes", "No");
113     //Calls the functions to display the employee's information
114     programOne.Display();
```

```
115     //Calls the function to set the initial values
116     programOne.SetInitial("Mary Coder", 6543222,"Mary Leader", 7, "Yes", "Yes");
117     //Calls the functions to display the employee's information
118     programOne.Display();
119     cout << endl;
120
121     cout << "SoftWare Architects\n\n";
122
123     //Calls function to display the table
124     firstEmployee.DisplayTable();
125     //Calls the function to set the initial values
126     firstEmployee.SetInitial("Alex Arch",88888,"959-353-3243",21,'M',"Architect",
127                              231243,"12/12/12");
128     //Calls the functions to display the employee's information
129     firstEmployee.Display();
130     cout << endl;
131     //Calls the function to set the initial values
132     firstEmployee.SetInitial("Sally Dsigner",87878,"310-555-8888",38,'F',
133                                "Architect", 870123,"12/12/13");
134     //Calls the functions to display the employee's information
135     firstEmployee.Display();
136
137     cout << endl << endl;
138
139     cout << "This one is me manually changing the employee's information\n";
140     //Calls function to display the table
141     softOne.DisplayTable();
142
143     /*************************************************************************
144     * These functions call will change the values that the variables were
145     * set to
146     *************************************************************************/
147     softOne.SetInitial("Alex Arch",543422,"Big Boss",6,4);
148     softOne.ChangeDepartNum(4545);
149     softOne.ChangeSuperName("Nobody Cares");
150     softOne.ChangeSalPer(-45);
151     softOne.ChangeNumExp(3);
152     //Calls the functions to display the employee's information
153     softOne.Display();
154
155     cout << endl << endl;
156
157     return 0;
158 }
159
160
161
```