SearchName.cpp

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4 * LAB #10 : Creating an Ordered List
5 * CLASS
             : CS 1B
6 * SECTION
             : MW - 7:30 pm
           : 11/05/2019
7 * DUE DATE
9 * SearchName
10 *********************************
11 * This function Allows the user to input a name and will output the node as
12 *
     described.
15 #include "MyHeader.h"
17 void SearchName(PersonNode *head)
18 {
19
      PersonNode *persPtr; //Proc - stores the target name
20
      PersonNode node;
                         //Proc & In - passes the info into persPtr
21
22
      bool found;
                      //Proc - condition value for the searched name
23
24
      //CHECKS FOR EMPTY LIST
25
      found = false;
26
27
28
      if (head == NULL)
29
         cout << endl;</pre>
30
31
         cout << "Search operation is not available for an empty list.";</pre>
32
         cout << endl;</pre>
33
      }
34
35
      else
36
      {
37
         //NEW NODE
38
39
         persPtr = new PersonNode;
40
         //INPUT
41
42
43
         cout << endl;</pre>
         cout << "Who would you like to search for? ";</pre>
44
45
         getline(cin, node.name);
46
47
         *persPtr = node;
48
49
         cout << endl;</pre>
50
         cout << "Searching for " << persPtr -> name << "...";</pre>
51
         cout << endl;</pre>
52
         //GOES ATHROUGH THE LIST
53
54
55
```

SearchName.cpp

```
56
 57
             while ((head -> next != NULL) && !found)
 58
 59
                  //IF FOUND
 60
 61
                  if (head -> name == persPtr -> name)
 62
 63
                      cout << endl;</pre>
                                          " << head -> name
 64
                      cout << "Name:
                                                               << endl;
                      cout << "Gender: " << head -> gender << endl;</pre>
 65
                                        " << head -> age
 66
                      cout << "Age:
                                                                << endl;
 67
 68
                      found = true;
                  }
 69
 70
 71
                  else
 72
                  {
 73
                      head = head -> next;
 74
                      found = false;
 75
                  }
 76
 77
 78
 79
             }
 80
 81
             if (head -> next == NULL && head -> name == persPtr -> name)
 82
 83
                 cout << endl;</pre>
                 cout << "Name:
                                    " << head -> name
 84
                                                          << endl;
                 cout << "Gender: " << head -> gender << endl;</pre>
 85
                                    " << head -> age
 86
                 cout << "Age:
 87
 88
                found = true;
 89
             }
 90
             //IF NOT FOUND IN THE LIST
 91
 92
 93
             else if (!found)
 94
 95
                  cout << endl;</pre>
                  cout << "I'm sorry, \"" << persPtr -> name;
 96
                  cout << "\" was NOT found!";</pre>
 97
 98
                  cout << endl;</pre>
             }
 99
100
101
         }
102
103
         persPtr = NULL;
104 }
105
```