```cpp
 1 /***********************************************
 2  * PROGRAMMER : Ali Eshghi
 3  * STUDENT ID : 1112261
 4  * CLASS      : CS1B
 5  * SECTION    : MW 7:30pm
 6  * Assign #1  : Functions and arrays
 7  * DUE DATE   : 19 September 2019
 8  ***********************************************/
 9 #include "MyHeader.h"
10
11 /****************************************************************************
12  * Function : FileOutput
13  * ------------------------------------------------------------------------
14  * This function will out put the results that were assigned to variables in
15  * the main from the other functions to the output file. the function is a void
16  * type function, so it doesn't need any return.
17  ****************************************************************************/
18
19 void FileOutput(ostream &outFile,
20                 string  nameAr[],
21                 int     idAr[],
22                 float   balanceAr[],
23                 int     option,
24                 int     balanceIndex,
25                 float   sumOrAvg,
26                 int     nameIndex)
27
28 {
29
30     //This if statement is for when the user chooses the option 1. It outputs
31     //the larger balance along side of the name and id of the person who has
32     //the larger balance. It uses the integer returned from the "SearchBalance"
33     //function to use in the parallel arrays to get the right data.
34     if (option == 1)
35     {
36         cout    << "\nFinding the larger balance..." << endl << endl;
37         outFile << left;
38         outFile << "Larger Balance:\n";
39         outFile << setw(9) << "ID #" << setw(25) << "NAME"     << "BALANCE DUE\n";
40         outFile << setw(9) << "----" << setw(25) <<"--------------------" <<
   "----------" << endl;
41         outFile << setw(9) << idAr[balanceIndex] << setw(25) <<
   nameAr[balanceIndex]
42                 << "$"      << right << setw(10) << balanceAr[balanceIndex] <<
   endl << endl;
43         outFile << right;
44     }//End of if statement
45
46     //This if statement is for when the user chooses the option 2. It outputs
47     //the smaller balance along side of the name and id of the person who has
48     //the smaller balance. It uses the integer returned from the "SearchBalance"
49     //function to use in the parallel arrays to get the right data.
50     else if (option == 2)
51     {
52         cout    << "Finding the smaller balance..." << endl << endl;
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53          outFile << left;
54          outFile << "Smaller Balance:\n";
55          outFile << setw(9) << "ID #" << setw(25) << "NAME"      << "BALANCE DUE\n";
56          outFile << setw(9) << "---" << setw(25) <<"-------------------" <<
    "----------" << endl;
57          outFile << setw(9) << idAr[balanceIndex] << setw(25) <<
    nameAr[balanceIndex]
58                  << "$"      << right << setw(10) << balanceAr[balanceIndex] <<
    endl << endl;
59          outFile << right;
60      }//End of if statement
61
62      //This if statement is for when the user chooses the option 3. It outputs
63      //the sum of all balances using the float number returned to main from the
64      // function named "SumOrAvg".
65      else if (option == 3)
66      {
67          cout    << "Obtaining the sum of all balances..." << endl << endl;
68          outFile << left;
69          outFile << "Sum of Balances for all persons :\n";
70          outFile << setw(10) << "$" <<sumOrAvg << endl << endl;
71          outFile << right;
72      }//End of if statement
73
74      //This if statement is for when the user chooses the option 4. It outputs
75      //the average of all balances using the float number returned to main from
76      //the function named "SumOrAvg".
77      else if (option == 4)
78      {
79          cout    << "Obtaining the average of all balances..." << endl << endl;
80          outFile << left;
81          outFile << "Average Balance for all persons\n";
82          outFile << setprecision(2) << fixed;
83          outFile << setw(10) << "$" << sumOrAvg << endl << endl;
84          outFile << right;
85      }//End of if statement
86
87      //This if statement is for when the user chooses the option 5. It outputs
88      //the name and id and balance of the person searched by the user in the
89      //function called "SearchName", using the integer returned from the function
90      //as the integer in the parallel arrays.
91      else if (option == 5)
92      {
93          outFile << left;
94          outFile << "Search Name :" << endl;
95
96          //This if statement indicated that if the integer returned form the
97          //"SearchName" function is between 0 - 9, then it can output the name,
98          //id, and balance of the person based on the parallel arrays.
99          if (nameIndex >= 0 && nameIndex <10)
100         {
101
102             outFile << setw(9) << "ID #" << setw(25) << "NAME"     << "BALANCE
    DUE\n";
103             outFile << setw(9) << "----" << setw(25) <<"-------------------"
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104                        << "——————————" << endl;
105             outFile << setw(9) << idAr[nameIndex] << setw(25) << nameAr[nameIndex]
106                        << "$"       << right << setw(10) << balanceAr[nameIndex] <<
  endl << endl;
107             outFile << right;
108        }//End of if statement
109
110        //else statement indicates that if the integer returned from the
111        //"SearchName" function is bigger than 9, that means there are
112        //no names in the list matching the searched name.
113        else
114        {
115            outFile << setw(9) << endl;
116            outFile << "Name Not Found in the list." << endl << endl;
117
118        }//End of else statement
119
120        outFile << right;
121    }
122
123
124
125 }
126
```