```cpp
1  //
2  // Shaun Chemplavil U08713628
3  // shaun.chemplavil@gmail.com
4  // C/C++ Programming III : Intermediate Programming with Objects
5  // 151116  Raymond L. Mitchell III
6  // Person.h
7  // Win10
8  // Visual C++ 19.0
9  //
10 // File contains the Person class definition
11 //
12 #ifndef SHAUNCHEMPLAVIL_PERSON_H
13 #define SHAUNCHEMPLAVIL_PERSON_H
14
15 #include<iostream>
16 #include<string>
17 using std::istream;
18 using std::ostream;
19 using std::string;
20
21 namespace ShaunChemplavil
22 {
23     class Person
24     {
25         friend istream &operator>>(istream & in, Person & person);
26         friend ostream &operator<<(ostream & out, const Person & person);
27
28     private:
29         string firstName;
30         string lastName;
31         int ageYears;
32         double heightInches;
33         double weightPounds;
34     };
35 }
36 #endif
37
```
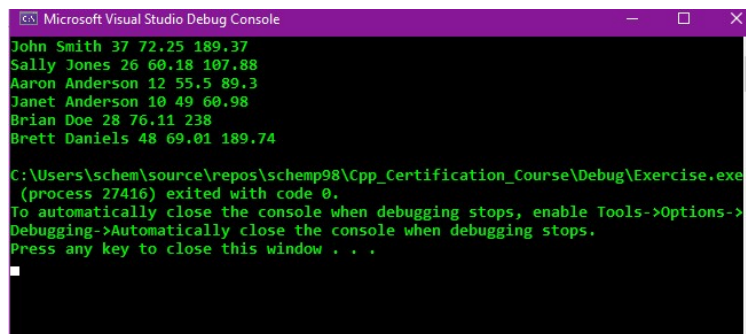
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4  // C/C++ Programming III : Intermediate Programming with Objects
5  // 151116  Raymond L. Mitchell III
6  // Person.cpp
7  // Win10
8  // Visual C++ 19.0
9  //
10 // File contains the member functions for the Person class
11 //
12
13 #include "Person.h"
14
15 namespace ShaunChemplavil
16 {
17     //place contents of a Person object into an output stream
18     ostream &operator<<(ostream &out, const Person &person)
19     {
20         out << person.firstName << " "
21             << person.lastName << " "
22             << person.ageYears << " "
23             << person.heightInches << " "
24             << person.weightPounds;
25
26         return out;
27     }
28     //place from input stream into a Person object
29     istream &operator>>(istream &in, Person &person)
30     {
31         in >> person.firstName
32            >> person.lastName
33            >> person.ageYears
34            >> person.heightInches
35            >> person.weightPounds;
36
37         return in;
38     }
39 }
40
```

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2  // Shaun Chemplavil U08713628
3  // shaun.chemplavil@gmail.com
4  // C/C++ Programming III : Intermediate Programming with Objects
5  // 151116  Raymond L. Mitchell III
6  // hw8.cpp
7  // Win10
8  // Visual C++ 19.0
9  //
10 // Test Program for the Person class
11 //
12
13 #include "Person.h"
14 #include<fstream>
15 #include<sstream>
16
17 using std::cerr;
18
19 using std::cout;
20 using std::ostringstream;
21 using std::string;
22 using std::ifstream;
23 using std::ios;
24
25 using ShaunChemplavil::Person;
26
27 const string INPUT_FILE = "hw8-input.txt";
28
29 int main()
30 {
31     ifstream in(INPUT_FILE, ios::in);
32     ostringstream out;
33     Person person;
34
35     //check if file open was successful
36     if (!in)
37     {
38         cerr << "Error opening file\n";
39         return(1);
40     }
41
42     // Extract next person from file, add newline char, and insert this into a
43     // stringstream
44     while (in >> person)
45         out << person << "\n";
46
47     // Output the contents of the stringstream to the display
48     cout << out.str();
49 }
50
```