

```
1 // Attached: Lab_2.2
2 //
3 // =====
4 // File: Lab_2-2.pdf (c_strings)
5 // =====
6 // Programmer: Stephen Moye
7 // Class: CMPR 121 Tuesday
8 // Instructor: Dennis Rainey
9 //
10 // Description:
11 // This program will take in a users first and last name
12 // and where they live and output it in a sentence. It
13 // will also check if first and last name are the same.
14 //
15 // =====
16
17 #include <iostream>
18 #include <string>
19
20 using namespace std;
21
22 // =====
23 // main
24 // =====
25 int main()
26 {
27     char firstName[20];
28     char lastName[20];
29     char fullName[40];
30     char city[30];
31
32     cout << "Enter your first name: ";
33     cin.getline(firstName, 20);
34
35     cout << "Enter your last name: ";
36     cin.getline(lastName, 20);
37
38     cout << "Enter the state you live in: ";
39     cin.getline(city, 30);
40
41     strcpy_s(fullName, firstName);
42     strcat_s(fullName, " ");
43     strcat_s(fullName, lastName);
44
45     cout << "\nHi " << fullName << ". " << "So you live in " << city << ".\n";
46     cout << "Your first name has " << strlen(firstName) << " characters,\n";
47     cout << "and your last name has " << strlen(lastName) << " characters.\n\n";
48
49     if (strcmp(firstName, lastName) == 0) {
50         cout << "Your first and last names are the same.\n\n";
51     }
52     else
```

```
53     {
54         cout << "Your first and last names are different.\n\n";
55     }
56
57     return 0;
58 }
59 // =====
60 // end of main
61 // =====
62
63
64 /* ===== Output =====
65 Enter your first name: Thomas
66 Enter your last name: Lee
67 Enter the state you live in: California
68
69 Hi Thomas Lee. So you live in California.
70 Your first name has 6 characters,
71 and your last name has 3 characters.
72
73 Your first and last names are different.
74
75
76 C:\\Users\\Steve\\Desktop\\School\\Computer Science\\CMPR121\\Labs\\Lab_2-2\\Debug  ↗
   \\Lab_2-2.exe (process 41292) exited with code 0.
77 To automatically close the console when debugging stops, enable Tools->Options-  ↗
   >Debugging->Automatically close the console when debugging stops.
78 Press any key to close this window . . .
79 =====  ↗
   */
80
81 /* ===== Output 2 =====
82 Enter your first name : Tom
83 Enter your last name : Tom
84 Enter the state you live in : Montana
85
86 Hi Tom Tom. So you live in Montana.
87 Your first name has 3 characters,
88 and your last name has 3 characters.
89
90 Your first and last names are the same.
91
92
93 C:\\Users\\Steve\\Desktop\\School\\Computer Science\\CMPR121\\Labs\\Lab_2 - 2\\Debug\\Lab_2  ↗
   - 2.exe(process 19096) exited with code 0.
94 To automatically close the console when debugging stops, enable Tools->Options-  ↗
   >Debugging->Automatically close the console when debugging stops.
95 Press any key to close this window . . .
96 =====  ↗
   */
```