```cpp
1  // Attached:
2  // File :
3  // ======================================================
4  // Programmer: Ashley Syhongpan
5  // Class : CS 1B
6  // Instructor: Med Mogasemi
7  // ======================================================
8  // Program: c_strings (HW_2a)
9  // ======================================================
10 // Description:
11 // User inputs their name and last age. The program
12 // displys their full name and age.
13 // ======================================================
14 // ======================================================
15 #include <iostream>
16 #include <cstring>
17 #include <stdlib.h>
18 using namespace std;
19
20 /*** function prototype ***/
21 void displayInfo(char name[], int age);
22
23 int main()
24 {
25     // variables
26     char firstName[10] = "Tom";
27     char lastName[10] = "";
28     char fullName[20] = "";
29     int age = 0;
30
31     // prompts user for age
32     cout << "Enter your age: ";
33     cin >> age;
34     cin.ignore();
35
36     // pronpts user for last name
37     cout << "Enter the last name: ";
38     cin.getline(lastName, 10);
39
40     // concatenates firstName and lastName to fullName
41     strcat_s(fullName, 20 * sizeof(char), firstName);
42     strcat_s(fullName, 20 * sizeof(char), " ");
43     strcat_s(fullName, 20 * sizeof(char), lastName);
44
45     // function used to display user full name and age
46     displayInfo(fullName, age);
47
48     return 0;
49 } // END - int main()
```

```
50
51
52  /*** function definition ***/
53
54  /**** displayInfo ************************************************
55   * This function displays the user's full name and age.
56   *
57   * Input:
58   * User's full name and age.
59   *
60   * Output:
61   * A greeting and user's full name and age.
62   ***************************************************************/
63
64  void displayInfo(char name[], int age)
65  {
66      cout << "Hello " << name << ". You are " << age << " years old.";
67  } // END - displayInfo()
68
69  /*************************** OUTPUT *****************************
70  Enter your age: 21
71  Enter the last name: Lee
72  Hello Tom Lee. You are 21 years old.
73  C:\Users\ashle\source\repos\HW_2a\x64\Debug\HW_2a.exe (process 16860)
       exited with code 0.
74  Press any key to close this window . . .
75  ***************************************************************/
```