```
...source\repos\Student_Record\Student_Record\Source.cpp
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```
1 // Attached:
2 // File
4 // Programmer: Ashley Syhongpan
5 // Class : CS 1B
6 // Instructor: Med Mogasemi
8 // Program: Student Record(HW_1c)
10 // Description:
11 // User inputs student name, id, and gpa.
12 // The program outputs this information.
16 #include <iostream>
17 #include <iomanip>
18 #include <string>
19 #include <stdlib.h>
20 using namespace std;
21
22 #include "prototypes.h"
23
27 int main()
28 {
29
    int id
         = 0;
30
    float gpa = 0;
31
    string name;
32
33
    // function used to prompt the user for id, name, gpa
34
    getRecord(id, name, gpa);
35
   // to clear screen
36
    system("CLS");
37
38
    // function used to output id, name, gpa
39
40
    displayRecord(id, name, gpa);
41
42 } // END - int main()
44
45
46
47
49 // ===== function declaration ============
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51
52 // ==== getRecord ==========================
53 // This function prompts the user for student id, student
54 // name, and student gpa.
55 //
56 // Input:
57 // Student id, name, and gpa.
58 //
59 // Output:
60 //
62 void getRecord(int& id, string& name, float& gpa)
63 {
64
      cout << left;</pre>
65
66
      cout << "Enter a student record:\n";</pre>
67
68
      cout << setw(6) << "ID: ";</pre>
69
      cin >> id;
70
      cin.ignore(1000, '\n');
71
72
      cout << setw(6) << "NAME: ";</pre>
73
      getline(cin, name);
74
75
      cout << setw(6) << "GPA: ";</pre>
76
      cin >> gpa;
77
      cin.ignore(1000, '\n');
78
79
     cout << right;</pre>
80 } // END - getRecord()
82
83
84
85
86 // ==== displayRecord =============
87 // This function displays the student id, name, and gpa.
88 //
89 // Input:
90 // Student id, name, and gpa.
91 //
92 // Output:
93 // Student id, name, and gpa.
95 void displayRecord(int id, string name, float gpa)
96 {
97
      cout << "STUDENT RECORD\n";</pre>
98
```

```
\verb|...source| repos \verb| Student_Record \verb| Student_Record \verb| Source.cpp| \\
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99
        cout << left;</pre>
100
        cout << "ID: ";
101
        cout << setw(14) << right << id << endl;</pre>
102
103
        cout << left;</pre>
104
        cout << "NAME: ";</pre>
105
106
      cout << setw(12) << right << name << endl;</pre>
107
108
       cout << left;</pre>
        cout << "GPA: ";
109
110
111
      cout << setw(13) << right << gpa;</pre>
112 } // END - displayRecord()
114
115 /* =============== Output ============
116 Enter a student record:
117 ID: 12345
118 NAME: Tom Lee
119 GPA: 3.5
120 --- screen clears ---
121 STUDENT RECORD
122 ID:
                12345
123 NAME:
              Tom Lee
124 GPA:
                  3.5
125 C:\Users\ashle\source\repos\Student_Record\x64\Debug\Student_Record.exe
      (process 23108) exited with code 0.
126 Press any key to close this window . . .
127 */
```