

```

1  /*
2  * - student.hpp -
3  * ENSC 251 - Lab Assignment 2
4  * May 31, 2019
5  * Judd Foster
6  * 301377893
7  */
8
9  // multiple inclusion prevention
10 #ifndef STUDENT_HPP
11 #define STUDENT_HPP
12
13 #include <iostream>
14 #include <string>
15
16 using namespace std;
17
18 // main student class, this is the same for all students, domestic and
19 // international
20 class Student
21 {
22 public:
23     // declare the get and set functions as public so that the main program can
24     // access them
25     string getFirstName() const;
26     void setFirstName(string s);
27     string getLastName() const;
28     void setLastName(string s);
29     float getCGPA() const;
30     void setCGPA(float c);
31     int getResearchScore() const;
32     void setResearchScore(int rs);
33     // create a constructor
34     Student();
35
36 private:
37     // declare the actual variables as private so that the main program can't
38     // access them and overwrite by accident
39     string firstName;
40     string lastName;
41     float CGPA;
42     int researchScore;
43 };
44
45 // functions outside of class but are common to both types of students
46
47 // returns a 1 if n1 > n2, 0 if n1 == n2, -1 if n1 < n2
48 int compareTwoNumbers(int n1, int n2);
49
50 // returns a 1 if n1 > n2, 0 if n1 == n2, -1 if n1 < n2
51 int compareTwoNumbers(float n1, float n2);
52
53 // returns a 1 if s1 > s2, 0 if s1 == s2, -1 if s1 < s2
54 int compareTwoStrings(string s1, string s2);
55
56 #endif
57

```