

```

1  /*
2  *   - domesticstudent.hpp -
3  *   ENSC 251 - Lab Assignment 2
4  *   May 31, 2019
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7  */
8
9  // multiple inclusion prevention
10 #ifndef DOMESTICSTUDENT_HPP
11 #define DOMESTICSTUDENT_HPP
12
13 #include <iostream>
14 #include <iomanip>
15 #include <string>
16 #include "student.hpp"
17
18 using namespace std;
19
20 // this class shares properties with the Student class above since it's a child
21 // class but it also has new members unique to DomesticStudent only
22 class DomesticStudent : public Student
23 {
24 public:
25     // declare the get and set functions as public so that the main program can
26     // access them
27     string getProvince() const;
28     void setProvince(string s);
29     // overload the insertion operator to print out the object's information
30     friend ostream& operator << (ostream& outs, const DomesticStudent &object);
31     // overload the extraction operator to copy a file line into the class
32     friend istream& operator >> (istream &ins, DomesticStudent &object);
33     // define friend functions for this class - friend functions can access
34     // any of the private members in this class but they don't belong to a
35     // particular class
36     friend int compareCGPA(DomesticStudent student1, DomesticStudent student2);
37     friend int compareResearchScore(DomesticStudent student1, DomesticStudent student2);
38     friend int compareFirstName(DomesticStudent student1, DomesticStudent student2);
39     friend int compareLastName(DomesticStudent student1, DomesticStudent student2);
40     // create a constructor
41     DomesticStudent();
42
43 private:
44     // declare the actual variables as private so that the main program can't
45     // access them and overwrite by accident
46     string province;
47 };
48
49 #endif
50

```