```
//Program 7.7
#include <string>
#include <iostream>
using namespace std;

class Name
{
  private:
    string firstname, lastname;

  public:
    Name(string fname, string lname)
    {
      firstname = fname;
      lastname = lname;
    }

    string getFullName()
    {
      return firstname + " " + lastname;
    }
};

class Lecturer
{
  private:
    Name name;
    string staffId;

  public:
    Lecturer(string fname, string lname, string sId):
    name(fname, lname)
    {
      staffId = sId;
    }

    string getLecturer()
    {
      return name.getFullName() + "\nLecturer id  : " +
             staffId;
    }
};

class Department
{
  private:
    Lecturer *lecturerDepart;

  public:
    Department(Lecturer *lectDepart)
    {
      lecturerDepart = lectDepart;
```

```
53      }
54
55      void printDepartment()
56      {
57        cout << "Lecturer name: " <<
58              lecturerDepart->getLecturer() << endl;
59      }
60  };
61
62  int main()
63  {
64    Lecturer *lect = new Lecturer("Abdullah", "Hamid", "124");
65    Department department(lect);
66    department.printDepartment();
67
68    return 0;
69  }
```

a. Based on Program 7.7 given above, draw the UML class diagram that shows the relationship between classes.

b. What is the output of Program 7.7?

c. Write the class definitions that contain aggregation relationship for the following classes as depicted in Figure 7.5.

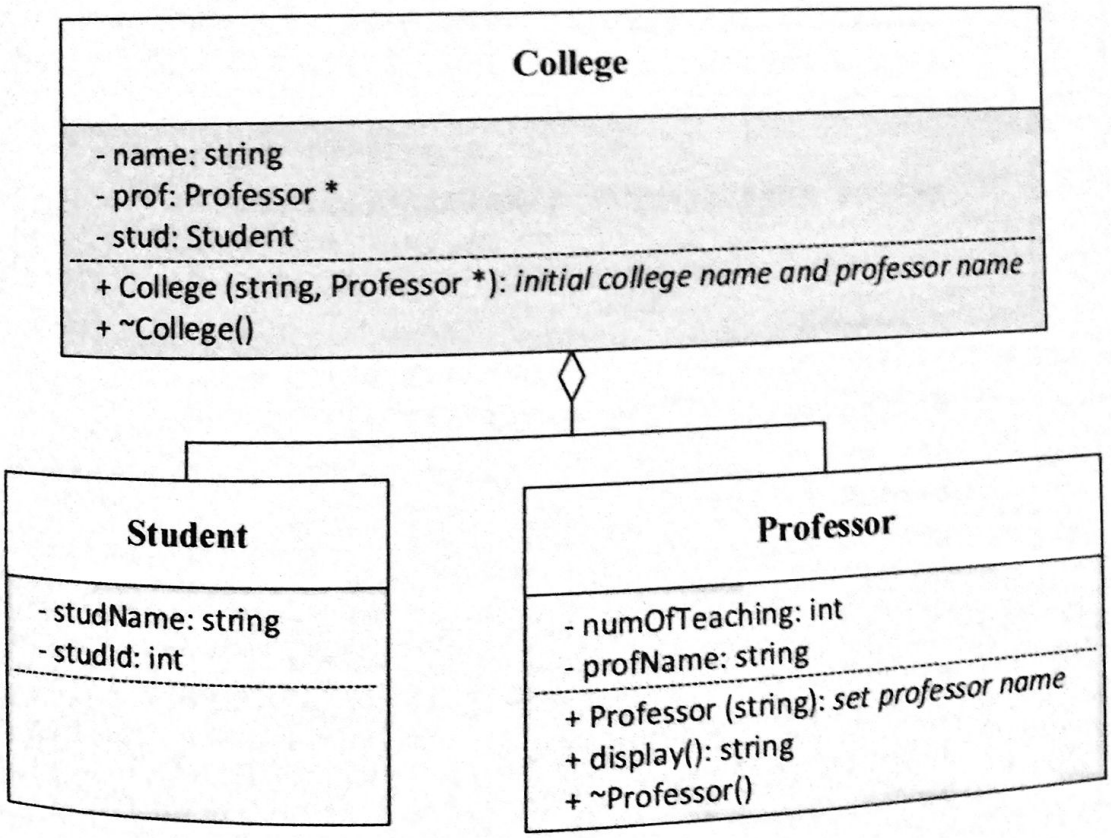

Figure 7.5: Aggregation relationship