Main.cpp

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/* Nicholas Chan & Kenry Yu
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/ CECS 282 Sec 06
/ Week 3 Lab 2
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#include "Student.h"
#include <iostream>
using namespace std;
int main() {
 Student studentList[5] = {Student("Tom", 85), Student("Alice", 71),
                            Student("Jack", 93), Student("Mary", 65),
                            Student("Sue", 54)};
 for (int i = 0; i < (sizeof(studentList) / sizeof(studentList[0])); i++)</pre>
    studentList[i].print();
 return 0;
}
```

Student.h

```
#ifndef STUDENT_H
#define STUDENT_H
#include <iostream>
#include <string>
using namespace std;
class Student {
 // Private members
 private:
    string name;
    int score;
    char grade;
  //Public members
 public:
   Student();
   Student(string name, int score);
   ~Student();
   void print();
};
#endif
```

```
Student.cpp
```

```
#include "Student.h"
#include <iomanip>
#include <iostream>
#include <string>
using namespace std;
// Default constructor this initializes the name, score, and grade
Student::Student() {
  this->name = "None";
 this->score = 0;
 this->grade = 'F';
}
// Overloaded constructor that set specific name and score of the student
Student::Student(string name, int score) {
  this->name = name;
  this->score = score;
 // studentGrade = [Grade/10]
  char letterGrade[] = {'F', 'D', 'C', 'B', 'A'};
  if (score >= 90) {
   this->grade = letterGrade[4];
  } else if (score >= 80) {
    this->grade = letterGrade[3];
  } else if (score >= 70) {
    this->grade = letterGrade[2];
  } else if (score >= 60) {
    this->grade = letterGrade[1];
  } else
    this->grade = letterGrade[0];
}
// Destructor that deletes the object
Student::~Student() {}
// Print function that prints out the student's name, score, and letter grade
void Student::print() {
  cout << left << setw(10) << name << right << setw(5) << score << setw(5)</pre>
       << grade << endl;
}
```

Output

> ./main		
Tom	85	В
Alice	71	С
Jack	93	Α
Mary	65	D
Sue	54	F
> []		