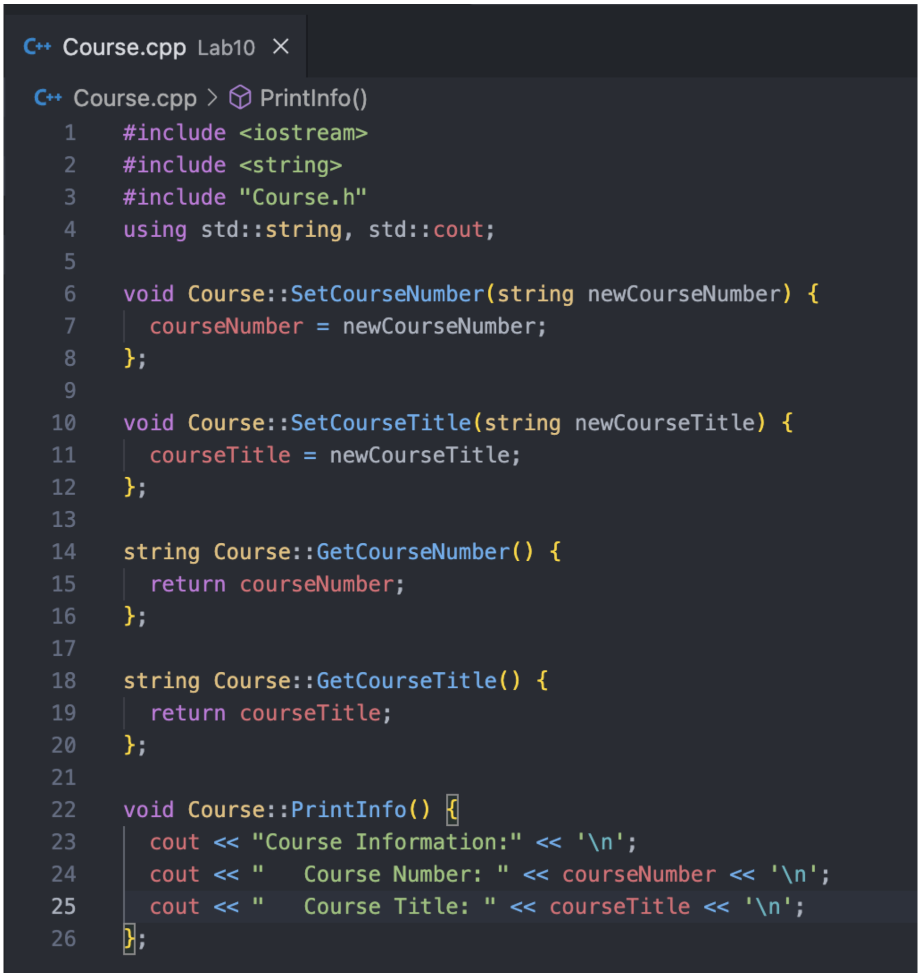
Assignment 1

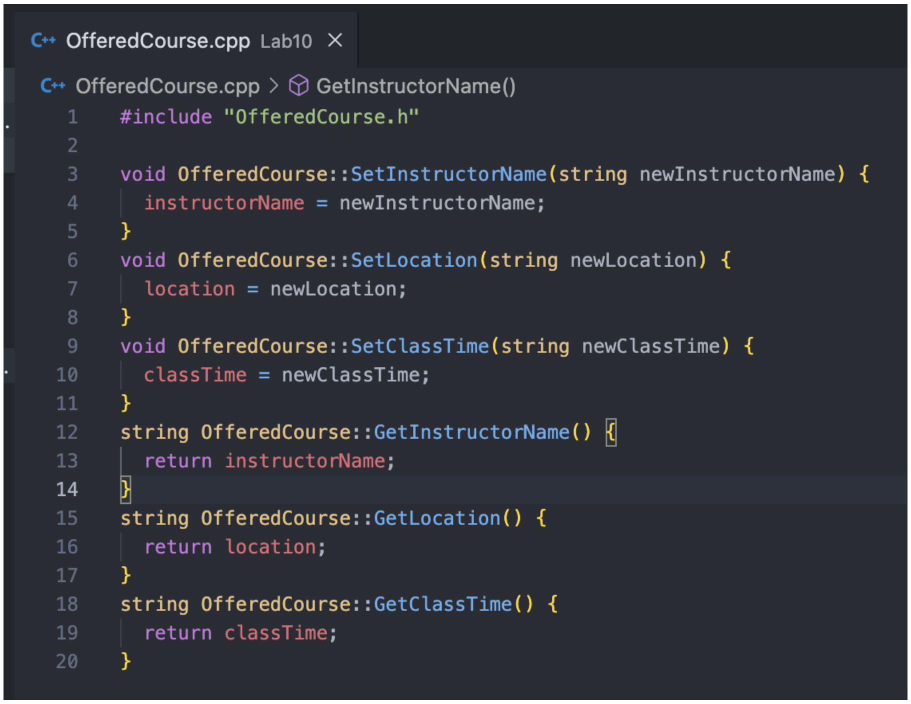
Lab Explanation

The requirements for this assignment were to create a program that would output Course and Offered Courses information based on a given input

Code



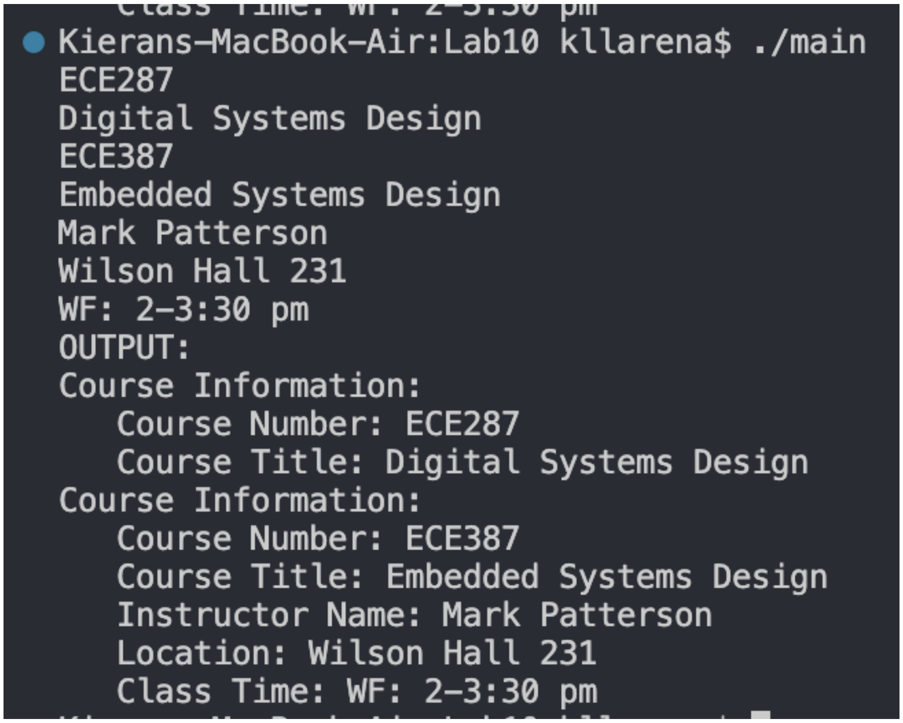
```cpp
#include <iostream>
#include <string>
#include "Course.h"
using std::string, std::cout;

void Course::SetCourseNumber(string newCourseNumber) {
  courseNumber = newCourseNumber;
};

void Course::SetCourseTitle(string newCourseTitle) {
  courseTitle = newCourseTitle;
};

string Course::GetCourseNumber() {
  return courseNumber;
};

string Course::GetCourseTitle() {
  return courseTitle;
};

void Course::PrintInfo() {
  cout << "Course Information:" << '\n';
  cout << "   Course Number: " << courseNumber << '\n';
  cout << "   Course Title: " << courseTitle << '\n';
};
```



```cpp
#include "OfferedCourse.h"

void OfferedCourse::SetInstructorName(string newInstructorName) {
  instructorName = newInstructorName;
}
void OfferedCourse::SetLocation(string newLocation) {
  location = newLocation;
}
void OfferedCourse::SetClassTime(string newClassTime) {
  classTime = newClassTime;
}
string OfferedCourse::GetInstructorName() {
  return instructorName;
}
string OfferedCourse::GetLocation() {
  return location;
}
string OfferedCourse::GetClassTime() {
  return classTime;
}
```

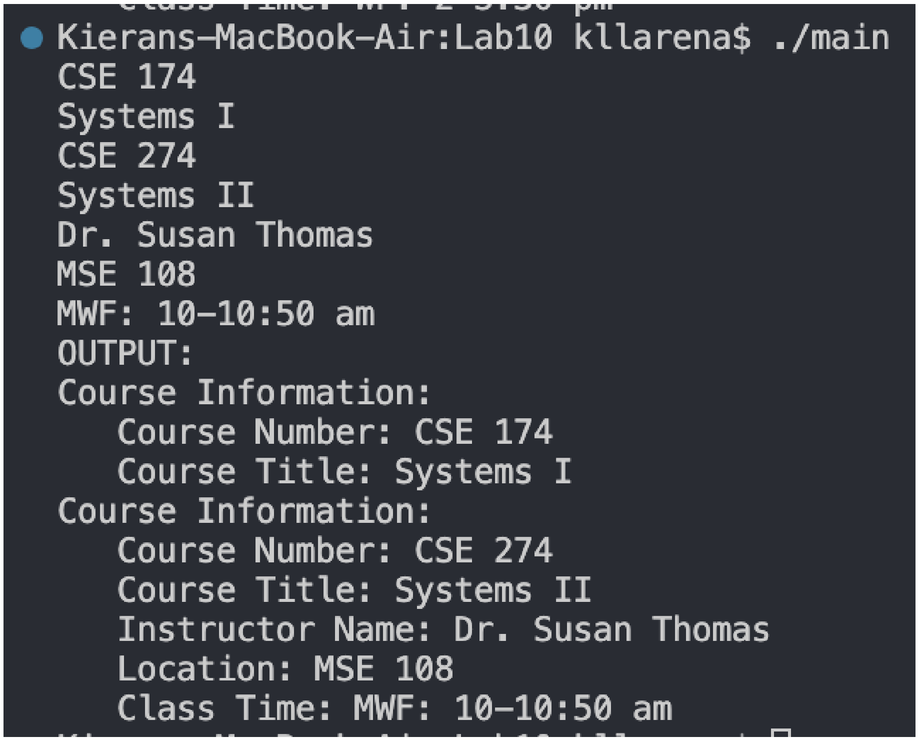
The first file Course.cpp is just a simple declaration of class methods. The second file OfferedCourse.cpp inherits the methods and data members of the Course class. New methods are added in the OfferedCourse class

Test 1



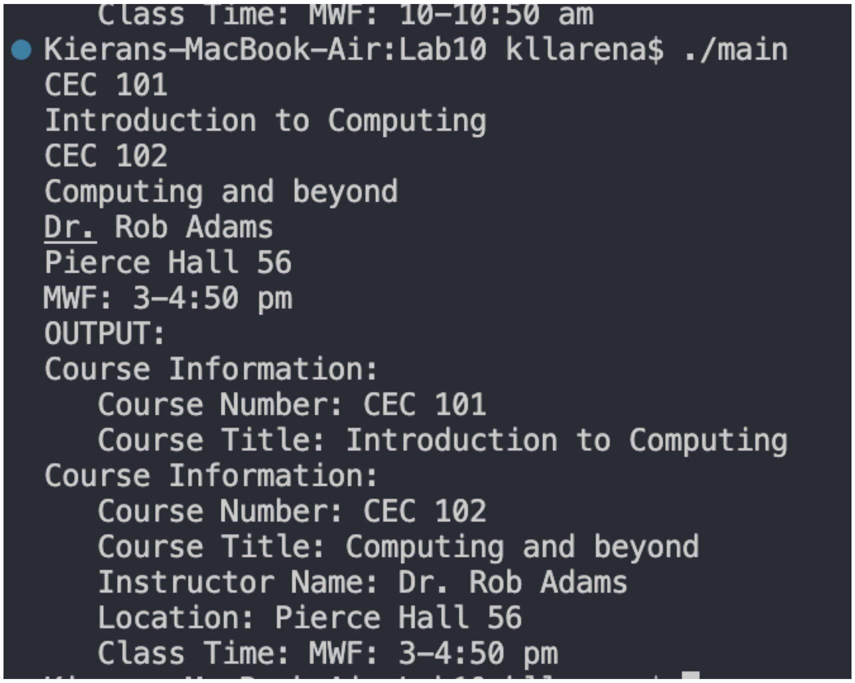
```
   Class Time: WF: 2-3:30 pm
Kierans-MacBook-Air:Lab10 kllarena$ ./main
ECE287
Digital Systems Design
ECE387
Embedded Systems Design
Mark Patterson
Wilson Hall 231
WF: 2-3:30 pm
OUTPUT:
Course Information:
   Course Number: ECE287
   Course Title: Digital Systems Design
Course Information:
   Course Number: ECE387
   Course Title: Embedded Systems Design
   Instructor Name: Mark Patterson
   Location: Wilson Hall 231
   Class Time: WF: 2-3:30 pm
Kierans-MacBook-Air:Lab10 kllarena$
```

Test 2



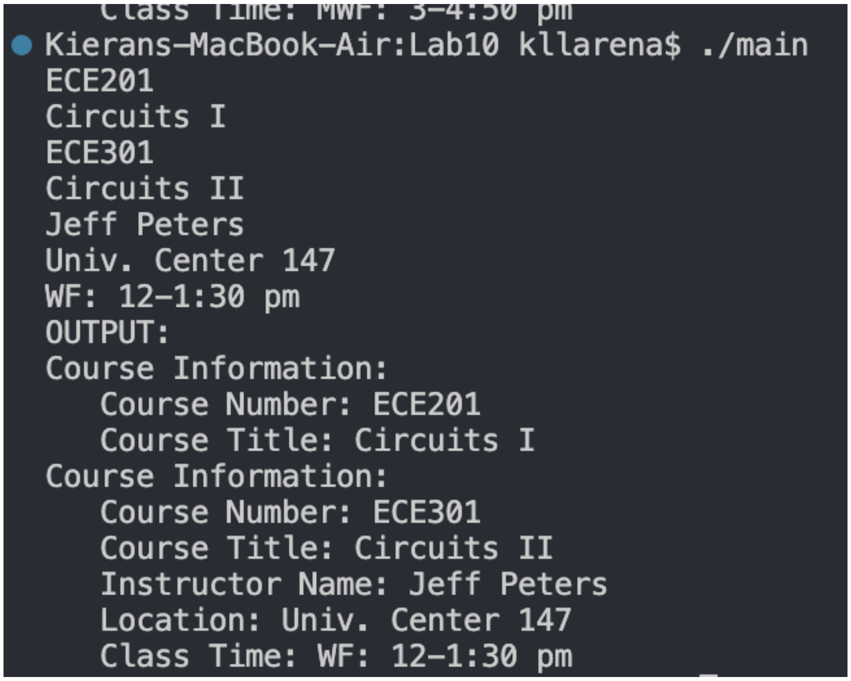
```
   Class Time: MWF: 2-3:50 pm
Kierans-MacBook-Air:Lab10 kllarena$ ./main
CSE 174
Systems I
CSE 274
Systems II
Dr. Susan Thomas
MSE 108
MWF: 10-10:50 am
OUTPUT:
Course Information:
   Course Number: CSE 174
   Course Title: Systems I
Course Information:
   Course Number: CSE 274
   Course Title: Systems II
   Instructor Name: Dr. Susan Thomas
   Location: MSE 108
   Class Time: MWF: 10-10:50 am
Kierans-MacBook-Air:Lab10 kllarena$
```

Test 3



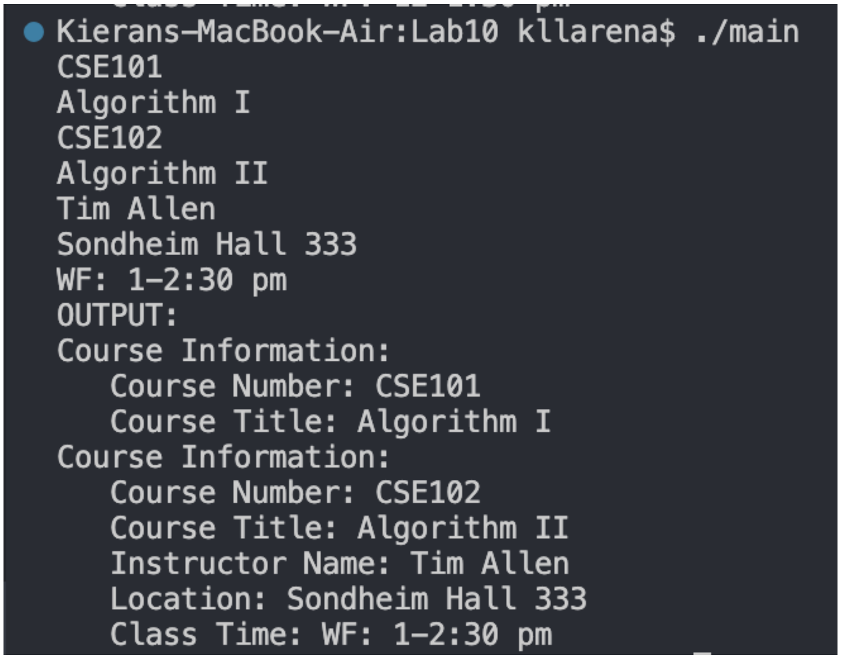
```
   Class Time: MWF: 10-10:50 am
Kierans-MacBook-Air:Lab10 kllarena$ ./main
CEC 101
Introduction to Computing
CEC 102
Computing and beyond
Dr. Rob Adams
Pierce Hall 56
MWF: 3-4:50 pm
OUTPUT:
Course Information:
   Course Number: CEC 101
   Course Title: Introduction to Computing
Course Information:
   Course Number: CEC 102
   Course Title: Computing and beyond
   Instructor Name: Dr. Rob Adams
   Location: Pierce Hall 56
   Class Time: MWF: 3-4:50 pm
Kierans-MacBook-Air:Lab10 kllarena$
```

Test 4



```
   Class Time: MWF: 3-4:50 pm
● Kierans-MacBook-Air:Lab10 kllarena$ ./main
  ECE201
  Circuits I
  ECE301
  Circuits II
  Jeff Peters
  Univ. Center 147
  WF: 12-1:30 pm
  OUTPUT:
  Course Information:
     Course Number: ECE201
     Course Title: Circuits I
  Course Information:
     Course Number: ECE301
     Course Title: Circuits II
     Instructor Name: Jeff Peters
     Location: Univ. Center 147
     Class Time: WF: 12-1:30 pm
```

Test 5



```
   Class Time: WF: 12-1:30 pm
● Kierans-MacBook-Air:Lab10 kllarena$ ./main
  CSE101
  Algorithm I
  CSE102
  Algorithm II
  Tim Allen
  Sondheim Hall 333
  WF: 1-2:30 pm
  OUTPUT:
  Course Information:
     Course Number: CSE101
     Course Title: Algorithm I
  Course Information:
     Course Number: CSE102
     Course Title: Algorithm II
     Instructor Name: Tim Allen
     Location: Sondheim Hall 333
     Class Time: WF: 1-2:30 pm
```