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Selected files

5 printable files CS5800 Q4\src\com\cpp\cs5800g4\Course.java CS5800 Q4\src\com\cpp\cs5800q4\Course2.java CS5800 Q4\src\com\cpp\cs5800q4\CS5800 Q4.java CS5800 Q4\src\com\cpp\cs5800q4\Instructor.java CS5800_Q4\src\com\cpp\cs5800q4\Textbook.java CS5800_Q4\src\com\cpp\cs5800q4\Course.java package com.cpp.cs5800q4; 2 public class Course { 4 private String courseName; 5 private Instructor instructor; 6 private Textbook textbook; 7 8 public Course(String courseName, Instructor instructor, Textbook textbook) { 9 this.courseName = courseName; 10 this.instructor = instructor; 11 this.textbook = textbook; 12 } 13 public String getCourseName() { 14 15 return courseName; 16 } 17 18 public void setCourseName(String courseName) { 19 this.courseName = courseName; 20 } 21 22 public Instructor getInstructor() { 23 return instructor; 24 } 25

public void setInstructor(Instructor instructor) {

this.instructor = instructor;

26

27

```
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 28
 29
  30
          public Textbook getTextbook() {
  31
              return textbook;
  32
          }
 33
  34
          public void setTextbook(Textbook textbook) {
  35
              this.textbook = textbook;
  36
          }
  37
          public void print() {
  38
              System.out.println("Course Name: " + courseName);
  39
              System.out.println("Instructor First Name: " + instructor.getFirstName());
 40
              System.out.println("Instructor Last Name: " + instructor.getLastName());
 41
              System.out.println("Office Number: " + instructor.getOfficeNumber());
 42
              System.out.println("Textbook Title: " + textbook.getTitle());
 43
              System.out.println("Textbook Author: " + textbook.getAuthor());
 44
              System.out.println("Textbook Publisher: " + textbook.getPublisher());
 45
 46
          }
 47
 48
 49
 50
 51
```

CS5800_Q4\src\com\cpp\cs5800q4\Course2.java

```
package com.cpp.cs5800q4;
2
   import java.util.ArrayList;
4
   public class Course2 {
6
        private String courseName;
7
        private ArrayList<Instructor> instructors;
8
        private ArrayList<Textbook> textbooks;
10
        public Course2(String courseName) {
11
            this.courseName = courseName;
12
            this.instructors = new ArrayList<>();
```

```
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              this.textbooks = new ArrayList<>();
 13
 14
          }
 15
          public String getCourseName() {
 16
 17
              return courseName;
 18
          }
 19
          public void setCourseName(String courseName) {
 20
              this.courseName = courseName;
 21
 22
          }
 23
          public ArrayList<Instructor> getInstructors() {
 24
 25
              return instructors;
 26
          }
 27
 28
          public void setInstructors(ArrayList<Instructor> instructors) {
 29
              this.instructors = instructors;
 30
          }
 31
 32
          public ArrayList<Textbook> getTextbooks() {
 33
              return textbooks;
          }
 34
 35
          public void setTextbooks(ArrayList<Textbook> textbooks) {
 36
 37
              this.textbooks = textbooks;
 38
          }
  39
 40
          public void addInstructor(Instructor instructor) {
              this.instructors.add(instructor);
 41
 42
          }
 43
          public void addTextbook(Textbook textbook) {
 44
 45
              this.textbooks.add(textbook);
 46
 47
          public void print() {
 48
              System.out.println("Course Name: " + courseName);
 49
 50
```

```
51
            System.out.println(" Instructors: ");
52
            for(Instructor instructor: instructors) {
53
                System.out.println("\t| " + "Instructor First name: " + instructor.getFirstName());
                System.out.println("\t| " + "Instructor Last name: " + instructor.getLastName());
54
55
                System.out.println("\t | " + "Office Number: " + instructor.getOfficeNumber());
                System.out.println();
56
57
58
59
            System.out.println(" Textbooks: ");
60
            for(Textbook textbook: textbooks) {
                System.out.println("\t| " + "Textbook Title: " + textbook.getTitle());
61
                System.out.println("\t| " + "Textbook Author: " + textbook.getAuthor());
62
                System.out.println("\t| " + "Textbook Publisher: " + textbook.getPublisher());
63
64
                System.out.println("");
65
66
        }
67
68
69
70
71
```

CS5800 Q4\src\com\cpp\cs5800q4\CS5800 Q4.java

```
package com.cpp.cs5800q4;
2
    public class CS5800_Q4 {
 3
4
        public static void main(String[] args) {
5
            Instructor instructor0 = new Instructor("Nima", "Davarpanah", "3-2636");
6
            Textbook textbook0 = new Textbook("Clean Code", "Robert C. Martin", "Prentice Hall");
 7
            Course course = new Course("Advanced Software Engineering", instructor0, textbook0);
8
            course.print();
9
            System.out.println();
10
            // allow multiple textbooks and instructors
11
12
            Course2 course2 = new Course2("Advanced Software Engineering");
13
14
            Instructor instructor = new Instructor("Nima", "Davarpanah", "3-2636");
            Textbook textbook = new Textbook("Clean Code", "Robert C. Martin", "Prentice Hall");
15
```

```
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 16
              course2.addInstructor(instructor);
 17
              course2.addTextbook(textbook);
 18
 19
 20
              Instructor instructor1 = new Instructor("Yu", "Sun", "9-2470");
 21
              Textbook textbook1 = new Textbook("Prompt Engineering", "Bob Burger", "Scholastic Books");
  22
              course2.addInstructor(instructor1);
 23
              course2.addTextbook(textbook1);
 24
              course2.print();
 25
 26
          }
 27
 28
 29
```

CS5800_Q4\src\com\cpp\cs5800q4\Instructor.java

```
package com.cpp.cs5800q4;
2
   public class Instructor {
4
        private String firstName;
5
        private String lastName;
        private String officeNumber;
6
7
8
        public Instructor (String firstName, String lastName, String officeNumber) {
9
            this.firstName = firstName;
10
            this.lastName = lastName;
            this.officeNumber = officeNumber;
11
12
        }
13
14
        public String getFirstName() {
15
            return firstName;
        }
16
17
18
        public void setFirstName(String firstName) {
19
            this.firstName = firstName;
20
21
        public String getLastName() {
22
```

```
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  23
              return lastName;
  24
          }
  25
  26
          public void setLastName(String lastName) {
              this.lastName = lastName;
  27
  28
          }
  29
  30
          public String getOfficeNumber() {
              return officeNumber;
  31
  32
          }
  33
          public void setOfficeNumber(String officeNumber) {
  34
              this.officeNumber = officeNumber;
  35
  36
          }
  37
  38
  39
```

CS5800_Q4\src\com\cpp\cs5800q4\Textbook.java

40

```
package com.cpp.cs5800q4;
   public class Textbook {
        private String title;
4
        private String author;
6
        private String publisher;
7
8
        public Textbook (String title, String author, String publisher) {
            this.title = title;
9
            this.author = author;
10
11
            this.publisher = publisher;
12
        }
13
14
        public String getTitle() {
15
            return title;
16
17
        public void setTitle(String title) {
18
```

```
19
            this.title = title;
20
       }
21
22
        public String getAuthor() {
23
            return author;
24
        }
25
26
        public void setAuthor(String author) {
27
            this.author = author;
28
        }
29
30
        public String getPublisher() {
31
            return publisher;
32
        }
33
34
        public void setPublisher(String publisher) {
35
            this.publisher = publisher;
36
        }
37
38
39
```