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Selected files

```
5 printable files
CS5800 HW1\CS5800 Q4\src\com\cpp\cs5800q4\CS5800 Q4.java
CS5800 HW1\CS5800 Q4\src\com\cpp\cs5800g4\Course.java
CS5800 HW1\CS5800 Q4\src\com\cpp\cs5800q4\Course2.java
CS5800 HW1\CS5800 Q4\src\com\cpp\cs5800g4\Instructor.java
CS5800_HW1\CS5800_Q4\src\com\cpp\cs5800q4\Textbook.java
CS5800_HW1\CS5800_Q4\src\com\cpp\cs5800q4\CS5800_Q4.java
    package com.cpp.cs5800q4;
 2
    public class CS5800_Q4 {
4
        public static void main(String[] args) {
 5
            Instructor instructor0 = new Instructor("Nima", "Davarpanah", "3-2636");
            Textbook textbook0 = new Textbook("Clean Code", "Robert C. Martin", "Prentice Hall");
 6
 7
            Course course = new Course("Advanced Software Engineering", instructor0, textbook0);
8
            course.print();
9
            System.out.println();
10
11
            // allow multiple textbooks and instructors
12
            Course2 course2 = new Course2("Advanced Software Engineering");
13
            Instructor instructor = new Instructor("Nima", "Davarpanah", "3-2636");
14
15
            Textbook textbook = new Textbook("Clean Code", "Robert C. Martin", "Prentice Hall");
16
17
            course2.addInstructor(instructor);
18
            course2.addTextbook(textbook);
19
20
            Instructor instructor1 = new Instructor("Yu", "Sun", "9-2470");
21
            Textbook textbook1 = new Textbook("Prompt Engineering", "Bob Burger", "Scholastic Books");
22
23
            course2.addInstructor(instructor1);
24
            course2.addTextbook(textbook1);
25
            course2.print();
26
        }
27
```

```
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28 }
29
```

CS5800_HW1\CS5800_Q4\src\com\cpp\cs5800q4\Course.java

```
package com.cpp.cs5800q4;
    public class Course {
4
        private String courseName;
5
        private Instructor instructor;
        private Textbook textbook;
6
7
8
        public Course(String courseName, Instructor instructor, Textbook textbook) {
9
            this.courseName = courseName;
10
            this.instructor = instructor;
            this.textbook = textbook;
11
12
13
        public String getCourseName() {
14
            return courseName;
15
16
        }
17
18
        public void setCourseName(String courseName) {
            this.courseName = courseName;
19
20
        }
21
22
        public Instructor getInstructor() {
23
            return instructor;
24
        }
25
26
        public void setInstructor(Instructor instructor) {
27
            this.instructor = instructor;
28
        }
29
30
        public Textbook getTextbook() {
31
            return textbook;
32
33
        public void setTextbook(Textbook textbook) {
34
```

```
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 35
              this.textbook = textbook;
  36
          }
  37
  38
          public void print() {
  39
              System.out.println("Course Name: " + courseName);
 40
              System.out.println("Instructor First Name: " + instructor.getFirstName());
              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_HW1\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;
9
10
        public Course2(String courseName) {
11
            this.courseName = courseName;
12
            this.instructors = new ArrayList<>();
13
            this.textbooks = new ArrayList<>();
        }
14
15
16
        public String getCourseName() {
17
            return courseName;
        }
18
19
```

```
20
        public void setCourseName(String courseName) {
21
            this.courseName = courseName;
22
        }
23
24
        public ArrayList<Instructor> getInstructors() {
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
36
        public void setTextbooks(ArrayList<Textbook> textbooks) {
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
49
            System.out.println("Course Name: " + courseName);
50
            System.out.println(" Instructors: ");
51
            for(Instructor instructor: instructors) {
52
                System.out.println("\t| " + "Instructor First name: " + instructor.getFirstName());
53
                System.out.println("\t| " + "Instructor Last name: " + instructor.getLastName());
54
                System.out.println("\t| " + "Office Number: " + instructor.getOfficeNumber());
55
                System.out.println();
56
57
```

```
58
            System.out.println(" Textbooks: ");
59
            for(Textbook textbook: textbooks) {
60
                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
                System.out.println("");
64
            }
65
66
67
        }
68
69
70
71
```

CS5800_HW1\CS5800_Q4\src\com\cpp\cs5800q4\Instructor.java

```
package com.cpp.cs5800q4;
2
   public class Instructor {
4
        private String firstName;
5
        private String lastName;
6
        private String officeNumber;
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
          public String getOfficeNumber() {
  30
              return officeNumber;
  31
  32
          }
  33
          public void setOfficeNumber(String officeNumber) {
  34
              this.officeNumber = officeNumber;
  35
  36
          }
  37
  38
  39
  40
```

CS5800_HW1\CS5800_Q4\src\com\cpp\cs5800q4\Textbook.java

```
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
```