# Fundamentals of Programming 2
# Exercise sheet 6 5%
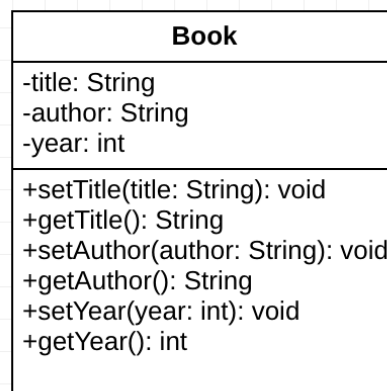
**\*\*\* READ THE QUESTIONS CAREFULLY \*\*\***
**\*\*\* NAME YOUR FILES TestBook.java and TestCourse.java \*\*\***
**\*\*\* SUBMIT NEAT, COMMENTED AND INDENTED CODE \*\*\***

## Question 1

Write a Java class called **Book** and a main class called **TestBook** that implements and tests the following class diagram. You may only include the instance variables and methods shown in the class diagram. Your program should be called **TestBook.java**.

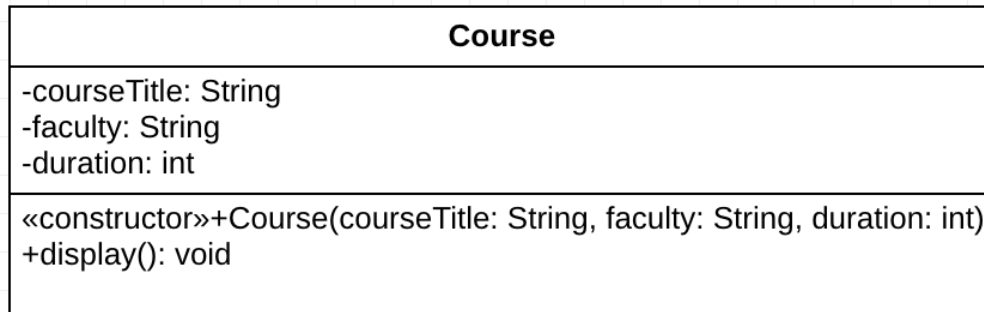| Book |
| --- |
| -title: String<br>-author: String<br>-year: int |
| +setTitle(title: String): void<br>+getTitle(): String<br>+setAuthor(author: String): void<br>+getAuthor(): String<br>+setYear(year: int): void<br>+getYear(): int |

Your test program output should look as follows:

```
Book Object 1
Title: Ulysses
Author: James Joyce
Year: 1921

Book Object 2
Title: Dracula
Author: Bram Stoker
Year: 1897
```

## Question 2

Write a Java class called **Course** and a main class called **TestCourse** that implements and tests the following class diagram. You may only include the instance variables and methods shown in the class diagram. Your program should be called **TestCourse.java**.

| Course |
| --- |
| -courseTitle: String<br>-faculty: String<br>-duration: int |
| «constructor»+Course(courseTitle: String, faculty: String, duration: int)<br>+display(): void |

Your test program output should look as follows:

```
Course Object 1
Course title: B.Sc. (Hons) in Computer Science
Faculty: Informatics
Duration: 4
Course Object 2
Course title: B.Sc. in Bioinformatics
Faculty: Biology
Duration: 4
Course Object 3
Course title: M.Sc. in Applied Artificial Intelligence
Faculty: Informatics
Duration: 2
```

## Deliverables

Place all your Java source files in a folder called **Week6**. Zip the Week6 folder and upload the zip file using the Week6 upload link for your group on MOODLE.

### All work must be submitted during your scheduled practical sessions.

## Plagiarism

This assessment should be an individual piece of work. Any evidence of plagiarism will result in a grade of zero for all parties involved and will trigger the Universities plagiarism policy **3AS08** (see course coordination page).