# Week 02: Programming Assignment 5

Due on 2025-02-06, 23:59 IST

Write a Java program to demonstrate the concept of **encapsulation** by modeling a **Book** object. The program should include methods for setting and getting the title and author of the book, and a method to display the details of the book. Task:

- 1. Create a class Book with the following private attributes:
- title (String)
  author (String)

  2. Include the following methods in the Book class:
  - setTitle(String title) to set the title of the book

  - setAuthor(String author) to set the author of the book.
    getTitle() to return the title of the book.
    getAuthor() to return the author of the book.
    displayDetails() to print the details of the book in the format
    - Title: <title> Author: <author>
- 3. In the main() method, create an object of the Book class, set the title and author, and then call the displayDetails() method to print the book details.

#### Input:

- The first line contains the title of the book (a single word).
  The second line contains the author's name (a single word)

Output:
Print the details of the book in the format:

Title: <title> Author: <author>

### Example:

## Input:

JavaProgramming JohnDoe

#### Output:

Title: JavaProgramming Author: JohnDoe

Private Test cases used for evaluation Input		Expected Output	Actual Output	Status
Test Case 1	IntroductionToJava Robert	Title: IntroductionToJava\n Author: Robert	Title: IntroductionToJava\n Author: Robert	Passed

The due date for submitting this assignment has passed. 1 out of 1 tests passed. You scored 100.0/100.

Assignment submitted on 2025-02-03, 19:06 IST

Your last recorded submission was:

1 import java.util.Scanner; public class W02\_P5{
 public static void main(String[] args) {
 Scanner sc = new Scanner(System.in);
 String title = sc.next();
 String author = sc.next(); // Create a Book object
Book book = new Book(); // Set title and autnor
book.setTitle(title);
book.setAuthor(author); // Display book details book.displayDetails(); class Book { private attributes
private String title;
private String author; // Setter for title
public void setTitle(String title) {
 this title = title: // Setter for author
public void setAuthor(String author) {
 this.author = author; // Getter for title
public String getTitle() { // Getter for author
public String getAuthor() {
 return this.author; Method to display details
public void displayDetails() {
 public void displayDetails() {
 System.out.println("Title: " + this.title);
 System.out.print("Author: " + this.author);
}

Sample solutions (Provided by instructor)

import java.util.Scanner;

public class W02\_P5{
 public static void main(String[] args) {
 Scanner sc = new Scanner(System.in);
 String all thor = Sc.next();

 Sample solutions (Provided by instructor) }
Method to display details
public void displayDetails() {
 System.out.println("Title: " + this.title);
 System.out.print("Author: " + this.author);