

Home Assignment: Understanding Methods and Objects in Java

Learning Objective:

To understand the creation and usage of methods and objects in Java.

Expected Completion Time:

Best Case: 15 minutes Average Case: 20 minutes

Assignment Details:

Create a class named **Library** with methods to manage book details. Execute these methods using objects from the main method.

Requirements:

1. Create a Java class named Library:

- Define a method addBook(String bookTitle) with one input argument.
 - ✓ Print the statement "Book added successfully"
 - ✓ Add a return statement to return the bookTitle.
- Define a method issueBook().
 - ✓ Print the statement "Book issued successfully".

2. Create an object for the Library class in the main method:

- Call both methods using the object.
- Run the code to confirm the methods are executed.

3. Create another Class Library Management:

- Create an object for the Library class in the main method of LibraryManagement.
- Call both methods of the Library class from LibraryManagement and execute.

Hints to Solve:

- Method Declaration: Define the methods addBook and issueBook within the Library class, specifying their return types (if any) and parameters.
- **Object Creation:** Class objects can be created within the main method of the same class as well as in a different class.

Expected Outcome:

Upon completion of this assignment, you should be able to understand:

- How to create a Java class with methods.
- How to define and implement methods with and without parameters.
- How to return values from methods.
- How to create and use objects to call methods within the same class and from a different class
- How to execute a Java program and observe the results in the console.

