| Assignment Submission Template | | - |
|---|--|--|
| Student Deta Information | ils | - |
| Name. | | |
| Registration No | | |
| Department | | |
| Section | | |
| Subject Code | | |
| Subject Name | | |
| Assignment No: | Assignment 1 | |
| 1. Aim | | - |
| To demonstrate rand counts. | method overloading in Java using a | Library class with different parameter types |
| | | |
| 2. Algorithm: | | |
| 1. Start the progr | | |
| 2. Create a class | • | |
| | ss, define a method addBook() with o | different parameter lists: |
| • | ring title) → accepts only the title. | |
| • | ring title, String author) → accepts | title and author. |
| • | tring title, String author, int year) → | • |
| | method, create an object of the Libra | |
| | ook() method with different argumen | ecuted depending on the arguments. |
| 7. Stop the progr | | ecuted depending on the arguments. |
| | | - |
| 3. Java Code | | |
| class Library { | | |
| // Overloaded | method 1 - only title | |
| void addBook(| | |
| System.out. | .println("Book added: " + title); | |
| } | | |
| // Overloaded | method 2 - title and author | |
| | (String title, String author) { | |
| | .println("Book added: " + title + " by ' | ' + author): |
| } | | <i>''</i> |
| - | | |

```
// Overloaded method 3 - title, author, and year
void addBook(String title, String author, int year) {
    System.out.println("Book added: " + title + " by " + author + " (" + year + ")");
  }
}

public class Main {
  public static void main(String[] args) {
    Library lib = new Library();

    // Calling overloaded methods
    lib.addBook("Ponniyin Selvan");
    lib.addBook("Wings of Fire", "A.P.J. Abdul Kalam");
    lib.addBook("Java Programming", "James Gosling", 1995);
  }
}
```

4. Output

```
Console X  

<terminated > Thi [Java Application] C:\Users\Dharani Vendan\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.8.v20250724-Book added: Ponniyin Selvan

Book added: Wings of Fire by A.P.J. Abdul Kalam

Book added: Java Programming by James Gosling (1995)
```

5. Screenshots

```
package oopslab_java;
class Library {

    // Overloaded method 1 - only title
    void addBook(String title) {
        System.out.println("Book added: " + title);
}

// Overloaded method 2 - title and author
void addBook(String title, String author) {
        System.out.println("Book added: " + title + " by " + author);
}

// Overloaded method 3 - title, author, and year
void addBook(String title, String author, int year) {
        System.out.println("Book added: " + title + " by " + author + " (" + year + ")");
}

public class Int {
        public static void main(String[] args) {
            Library lib = new Library();

            // Calling overloaded methods
            lib.addBook("Ponniyin Selvan");
            lib.addBook("Java Programming", "James Gosling", 1995);
}

lib.addBook("Java Programming", "James Gosling", 1995);
}
```

OUTPUT:

```
Console X

<terminated > Thi [Java Application] C:\Users\Dharani Vendan\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.8.v20250724-

Book added: Ponniyin Selvan

Book added: Wings of Fire by A.P.J. Abdul Kalam

Book added: Java Programming by James Gosling (1995)
```

6. GitHub Repository Link
Paste your GitHub project URL here:

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