TOPIC : Use the this keyword in Book class constructors and setters to refer to instance variables.

AIM:

To implement a Book class using the `this` keyword in constructors and setters to refer to instance variables.

ALGORITHM:

1. Start the program.

2. Define a Book class with instance variables `title`, `author`, and `price`.

3. Create a constructor and use the `this` keyword to initialize instance variables.

4. Define setter methods and use the `this` keyword to assign parameter values to instance variables.

5. Create a method to display book details.

6. In the `main` method, create a Book object, set values, and display details.

7. Stop the program.

PROGRAM:

```java
package assignment;

public class Book {

private String title;

private String author;

private double price;

public Book(String title, String author, double price) {

    this.title  = title;

    this.author = author;

    this.price  = price;

}

public void setTitle(String title)   { this.title = title; }

public void setAuthor(String author) { this.author = author; }

public void setPrice(double price)   { this.price = price; }

public String getTitle()  { return title; }

public String getAuthor() { return author; }

public double getPrice()  { return price; }

    public void displayBook() {

    System.out.println("Title  : " + title);

    System.out.println("Author : " + author);
```

```java
        System.out.println("Price  : Rs. " + price);

        System.out.println("------------------------");

    }

    public static void main(String[] args) {

        Book b1 = new Book("Java Programming", "James Gosling", 550.0);

        Book b2 = new Book("Python Basics", "Guido van Rossum", 450.0);

        System.out.println("Initial Book Details:");

        b1.displayBook();

        b2.displayBook();

        b1.setPrice(600.0);

        b2.setAuthor("Rossum G.");

        System.out.println("Updated Book Details:");

        b1.displayBook();

        b2.displayBook();

    }
}
```

OUTPUT:

Initial Book Details:
Title : Java Programming
Author : James Gosling

Price : Rs. 550.0

Title : Python Basics
Author : Guido van Rossum
Price : Rs. 450.0

Updated Book Details:
Title : Java Programming
Author : James Gosling
Price : Rs. 600.0
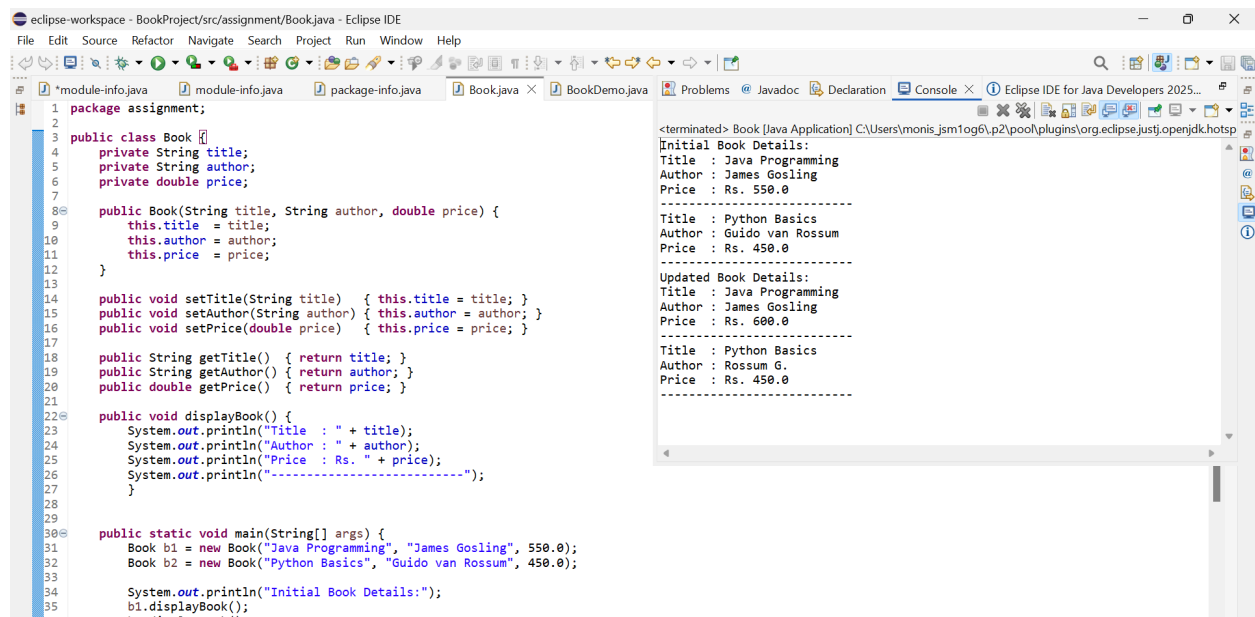
Title : Python Basics
Author : Rossum G.
Price : Rs. 450.0

SCREENSHOT:

GITHUB REPOSITORY LINK: