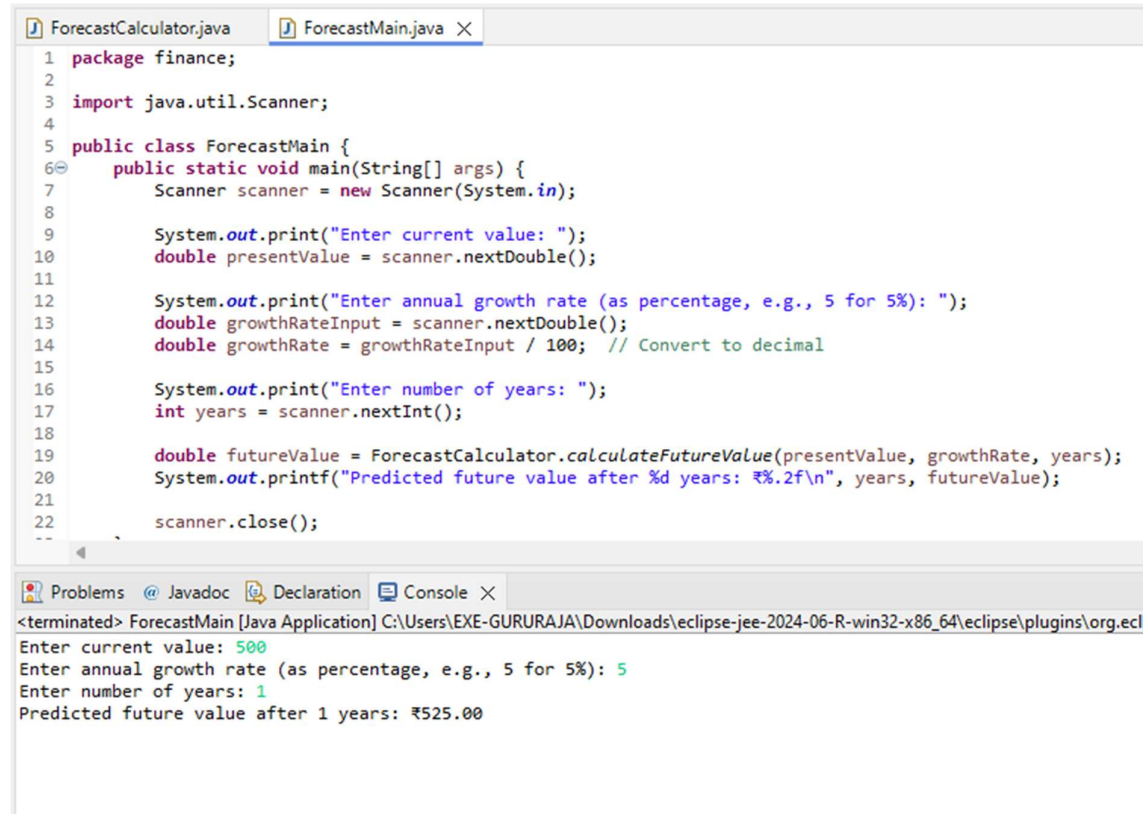


## Exercise 7: Financial Forecasting

Output Screenshots:



The screenshot displays the Eclipse IDE interface. The top editor shows the `ForecastMain.java` file with the following code:

```
1 package finance;
2
3 import java.util.Scanner;
4
5 public class ForecastMain {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Enter current value: ");
10        double presentValue = scanner.nextDouble();
11
12        System.out.print("Enter annual growth rate (as percentage, e.g., 5 for 5%): ");
13        double growthRateInput = scanner.nextDouble();
14        double growthRate = growthRateInput / 100; // Convert to decimal
15
16        System.out.print("Enter number of years: ");
17        int years = scanner.nextInt();
18
19        double futureValue = ForecastCalculator.calculateFutureValue(presentValue, growthRate, years);
20        System.out.printf("Predicted future value after %d years: ₹%.2f\n", years, futureValue);
21
22        scanner.close();
23    }
24 }
```

The bottom console window shows the execution output:

```
<terminated> ForecastMain [Java Application] C:\Users\EXE-GURURAJA\Downloads\eclipse-jee-2024-06-R-win32-x86_64\eclipse\plugins\org.ecl
Enter current value: 500
Enter annual growth rate (as percentage, e.g., 5 for 5%): 5
Enter number of years: 1
Predicted future value after 1 years: ₹525.00
```