

In this exercise, you will learn the differences between using double and BigDecimal data types. This will also help you learn do some basic arithmetic operations in Java.

The code provided has a Loan class that has 4 variables:

```
int years;
long principal;
double interestRate;
BigDecimal bigInterestRate;
```

It has four methods:

```
public double calcEMI()
public BigDecimal calcBigEMI()
public void getInputs()
public static void main(String[] args) {
```

You need to fill in code for three methods.

1. getInputs() gets user inputs and initializes the four variables listed above
2. calcEMI() uses primitive data type double to calculate the EMI.
3. calcBigEMI() uses BigDecimal data type to calculate the EMI.

EMI formula:

$$A = P \cdot \frac{r(1+r)^n}{(1+r)^n - 1}$$

(source: https://en.wikipedia.org/wiki/Equated_monthly_installment)

- A: periodic amortized payment (i.e. EMI)
- P: principal amount
- r: annual rate of interest
- n: number of payments to be made

Note that if you want monthly EMI, r needs to be divided by 12.

Here is the sample output for your reference:

```
Enter principal amount
5000000000
Enter number of years
50
Enter annual interest rate. 5% to be entered as 0.05
0.05
***** Results *****
Principal: $5,000,000,000
Interest rate: 5.00%
Monthly EMI using double: 2.270693845488826E7
Monthly EMI using BigDecimal: 22706938.45488824390641270899
Monthly difference bigEMI - doubleEMI = -0.000000016093587
Total difference = -0.000000048636716
```

Important: When printing BigDecimal, you need to set its scale to handle recurring decimals, otherwise it throws ArithmeticException. This is how you would do it:

```
System.out.println("Monthly EMI using BigDecimal: " + bigEMI.setScale(20, RoundingMode.HALF_UP));
```

Here 20 means up to 20 decimal places, and RoundingMode.HALF_UP means round up to next decimal value at the last decimal place.

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1. Understanding the eBook Java Practice Problems With Solutions
 - The Rise of Digital Reading Java Practice Problems With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Java Practice Problems With Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Java Practice Problems With Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Java Practice Problems With Solutions
 - Personalized Recommendations
 - Java Practice Problems With Solutions User Reviews and Ratings
 - Java Practice Problems With Solutions and Bestseller Lists
5. Accessing Java Practice Problems With Solutions Free and Paid eBooks
 - Java Practice Problems With Solutions Public Domain eBooks
 - Java Practice Problems With Solutions eBook Subscription Services
 - Java Practice Problems With Solutions Budget-Friendly Options

6. Navigating Java Practice Problems With Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Java Practice Problems With Solutions Compatibility with Devices
 - Java Practice Problems With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Java Practice Problems With Solutions
 - Highlighting and Note-Taking Java Practice Problems With Solutions
 - Interactive Elements Java Practice Problems With Solutions
8. Staying Engaged with Java Practice Problems With Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Java Practice Problems With Solutions
9. Balancing eBooks and Physical Books Java Practice Problems With Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Java Practice Problems With Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Java Practice Problems With Solutions
 - Setting Reading Goals Java Practice Problems With Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Java Practice Problems With Solutions
 - Fact-Checking eBook Content of Java Practice Problems With Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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