Financial Forecasting

```java
public class FinancialForecast {


    public static double predictFutureValue(double presentValue, double growthRate, int years) {
        if (years == 0) {
            return presentValue;
        }
        return predictFutureValue(presentValue, growthRate, years - 1) * (1 + growthRate);
    }

    Run | Debug
    public static void main(String[] args) {
        double presentValue = 10000;
        double growthRate = 0.08;
        int years = 5;

        double futureValue = predictFutureValue(presentValue, growthRate, years);
        System.out.printf(format:"Predicted Future Value after %d years: ₹%.2f\n", years, futureValue);
    }
}
```

OUTPUT:

```
[Running] cd "c:\Users\Lenovo\OneDrive\Desktop\Cognizant\week1\DSA\Financial Forecasting\" && javac FinancialForecast.java && java FinancialForecast
Predicted Future Value after 5 years: ?14693.28

[Done] exited with code=0 in 0.962 seconds
```