**GreenBrew Ltd Financial Analysis**

**Project Descriptions:**

**Task 1 – Scenarios**

You are a business analyst at **GreenBrew Ltd**, a beverage company that is launching a new organic drink line. The management is uncertain about future market performance and has asked you to analyze how changes in key business variables affect profitability.

Using Excel's **Scenario Manager**, you are to help the company plan for three potential business conditions: Best Case, Most Likely Case, and Worst Case.

**Questions:**

1. What is the profit in each of the three scenarios?
2. Which scenario results in a loss, and why?
3. How does changing the selling price affect profit compared to changing the variable cost?
4. If the company wants to avoid a loss in the worst-case scenario, what variable would you recommend adjusting?
5. What are the business insights you can draw from the Scenario Summary Report?
6. How could this analysis support strategic planning and risk management at GreenBrew Ltd?

**Task 2 – Forecasting**

The management wants you to analyze this data and forecast sales for the next 3 years using Excel’s built-in forecasting tools.

**Task 3 – Business Analysis**

GreenBrew Ltd currently holds **18,000 units** of its flagship organic beverage, *Product X*, in inventory. The **selling price per unit** is **$2.50**, the **variable cost per unit** is **$1.35**, and the company incurs **fixed costs** of **$1,000**.

The management has set a new profit goal of **$25,000** and is exploring pricing strategies and cost adjustments to achieve it.

**✅ Your Task:**

Using Excel’s **Goal Seek** tool, help GreenBrew Ltd determine the **required quantity of units to sell** in order to meet the $25,000 profit target under the following revised assumptions:

* The **selling price per unit** must **not exceed $4.00**
* The **variable cost per unit** is **set at $2.00**
* Fixed cost remains **$1,000**

**Task 4 - Loan Amortization Task – GreenBrew Ltd (Client Case)**

A client has taken out a loan of $200,000 with an annual interest rate of 6%, to be repaid in monthly installments over a period of 40 years.

✅ Your Task:

Using Excel:

1. Calculate the monthly loan repayment amount using the PMT function.
2. Create a full amortization table showing:
   * Month
   * Beginning Balance
   * Monthly Payment
   * Interest Payment
   * Principal Payment
   * Ending Balance
3. Ensure the table runs for the entire 480 months (40 years × 12 months).