Coffee Yield Analysis Project

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1. Introduction / Aim

The aim of this project is to study how **rainfall and temperature** affect **coffee yield** in a coffee estate. By analyzing the given data, we can understand patterns and identify factors that influence coffee production.

2. Data Table

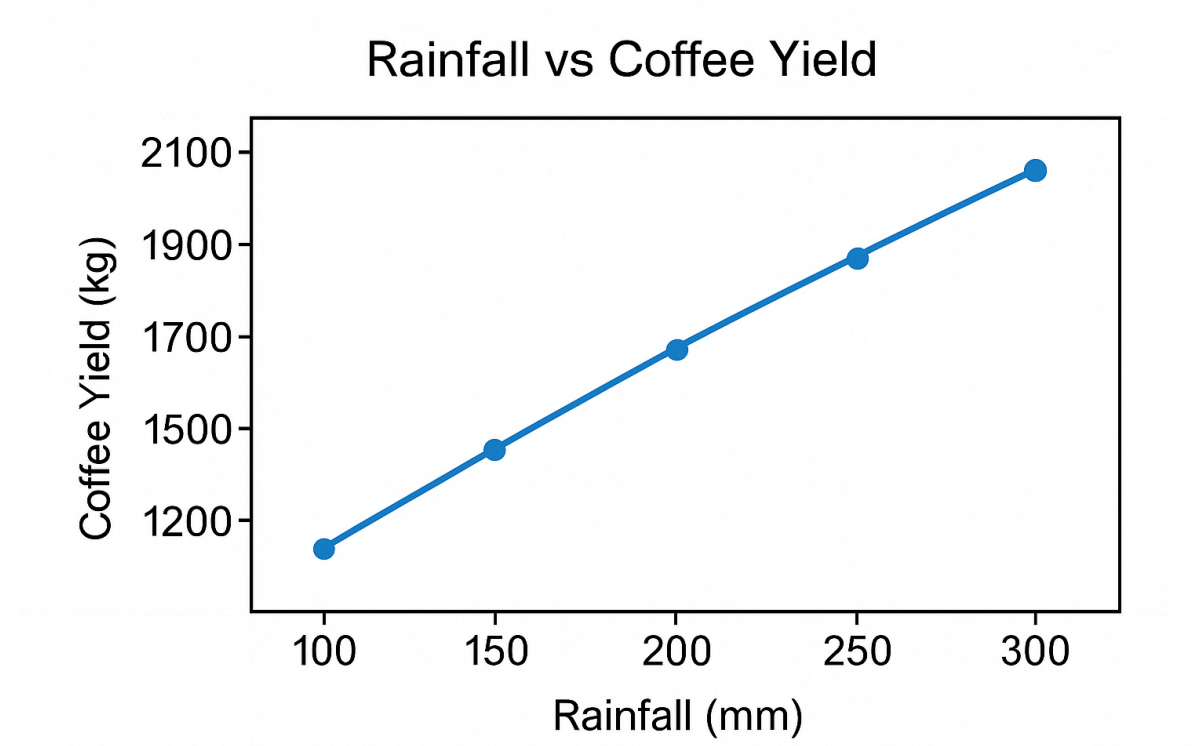
Rainfall (mm)	Temperature (°C)	Coffee Yield (kg)
100	22	1200
150	23	1500
200	24	1700
250	25	1900
300	26	2100

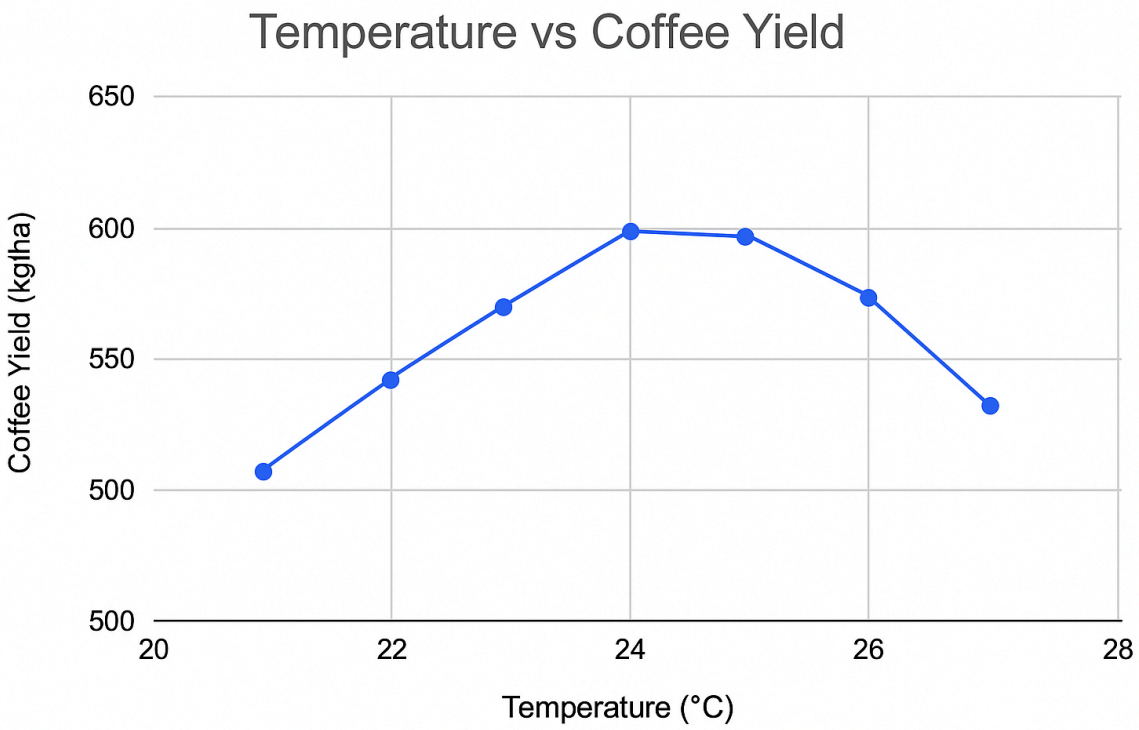
3. Observations

1. The **rainfall increases** from 100 mm to 300 mm.
2. The **temperature increases** from 22°C to 26°C.
3. Coffee yield **increases** from 1200 kg to 2100 kg.
4. It appears that **higher rainfall and higher temperature lead to higher coffee yield**.

5. The data shows a **direct relationship** between rainfall, temperature, and coffee production.

4. Charts/ Graphs





5. Conclusion

- Coffee yield increases with rainfall.
- Coffee yield also increases with temperature.
- Estates with higher rainfall and moderate-high temperatures are likely to produce more coffee.
- Understanding these factors helps in planning coffee cultivation effectively.

6. References / Acknowledgment

- Data source: `coffee_estate.csv` file provided for the project.
- Tools used: Google Docs, simple calculations, line/bar charts.