**Option 3 Spreadsheet Sales Analysis Group 1: Canva Presentation**

**Total time: 15 mins**

**Part I.Slides 1-3:**

**Slide 1: Project Overview**

* **Title**: Spreadsheet Sales Analysis Project
* **Objective**: Analyse monthly sales data and generate insights using Python
* **Key Tasks**:
  + read data from a CSV file
  + calculate total sales and other metrics
  + visualise trends using Seaborn

**Slide 2: Data Source**

* **Dataset**: sales.csv
* **Fields**:
  + month: name of month.
  + sales: figures for each month.
* **Tools**:
  + Python libraries: csv, pandas, seaborn, matplotlib

**Slide 3: Key Insights**

* **Total Sales**: calculated as the sum of all monthly sales.
* **Average Sales**: computed as the mean sales per month.
* **Monthly Percentage Changes**:
  + highlighted variations from one month to the next.
* **Extremes**:
  + Highest sales: {insert month and value}
  + Lowest sales: {insert month and value}

**Part II. Slides 4-6:**

**Slide 4: Visualising the Data**

* **Bar Chart**: monthly sales distribution.
  + **Purpose**: identify trends and patterns visually.
  + **Key Observations**: {add brief observations based on the plot}
* **Line Chart**: percentage change in sales
  + **Purpose**: understand fluctuations and growth rates
  + **Dot chart:** car sales advanced data

**Slide 5: Challenges and Lessons Learnt**

* + Cleaning and processing the dataset.
  + Understanding monthly variations.
  + Effective use of Python for data analysis.
  + Leveraging Seaborn for impactful visualisations.

**Slide 6: Future Extensions**

* Use of real-world datasets from Kaggle for broader insights.
* Automate data import and report generation.
* Incorporate predictive analysis for future sales trends.

**Part III. Slides 7-9:**

**Slide 7: Conclusion**

* The project demonstrates the power of Python in data analysis.
* Generated actionable insights:
  + Total sales.
  + Monthly performance.
  + Key outliers (highest/lowest months).
* Visualizations make trends easy to interpret.

**Slide 8: Acknowledgments**

* **Resources**:
  + Dataset from course materials.
  + Documentation from seaborn and pandas.
* **Tools**:
  + Python (3.9+), Seaborn, Matplotlib

**Slide 9-11: Challenges and Q&A**

Questions and Answers

discussion and queries about the analysis

Github link

Suggestions and Notes: