**What I did with the Python code:**

* **Loading and Cleaning Data:** The code begins by importing the necessary libraries and loading sales data from a CSV file with the appropriate encoding. It then checks and converts the OrderDate, DueDate, and ShipDate columns into datetime format to ensure that the data can be accurately analyzed over time.
* **Calculating Revenue:** If the Revenue column is missing, the code calculates it using the existing UnitPrice and Quantity columns. It also formats the TotalDue column, making sure it is in a numeric format suitable for further analysis.
* **Feature Engineering:** To help with time-based analysis, the code adds new columns for Year and YearQuarter. It converts the YearQuarter column into a timestamp format that is compatible with the Prophet forecasting model.
* **Aggregating Data:** The sales data is then aggregated by YearQuarter, summing the TotalDue to prepare it for forecasting. The columns are renamed to align with Prophet's input requirements.
* **Forecasting and Visualization:** A Prophet model is fitted to the aggregated sales data to forecast future sales for the next five years. The forecast is visualized alongside historical sales data, marked by a vertical line that indicates the last available historical data point. Finally, the modified DataFrame is saved to a new CSV file for future use.