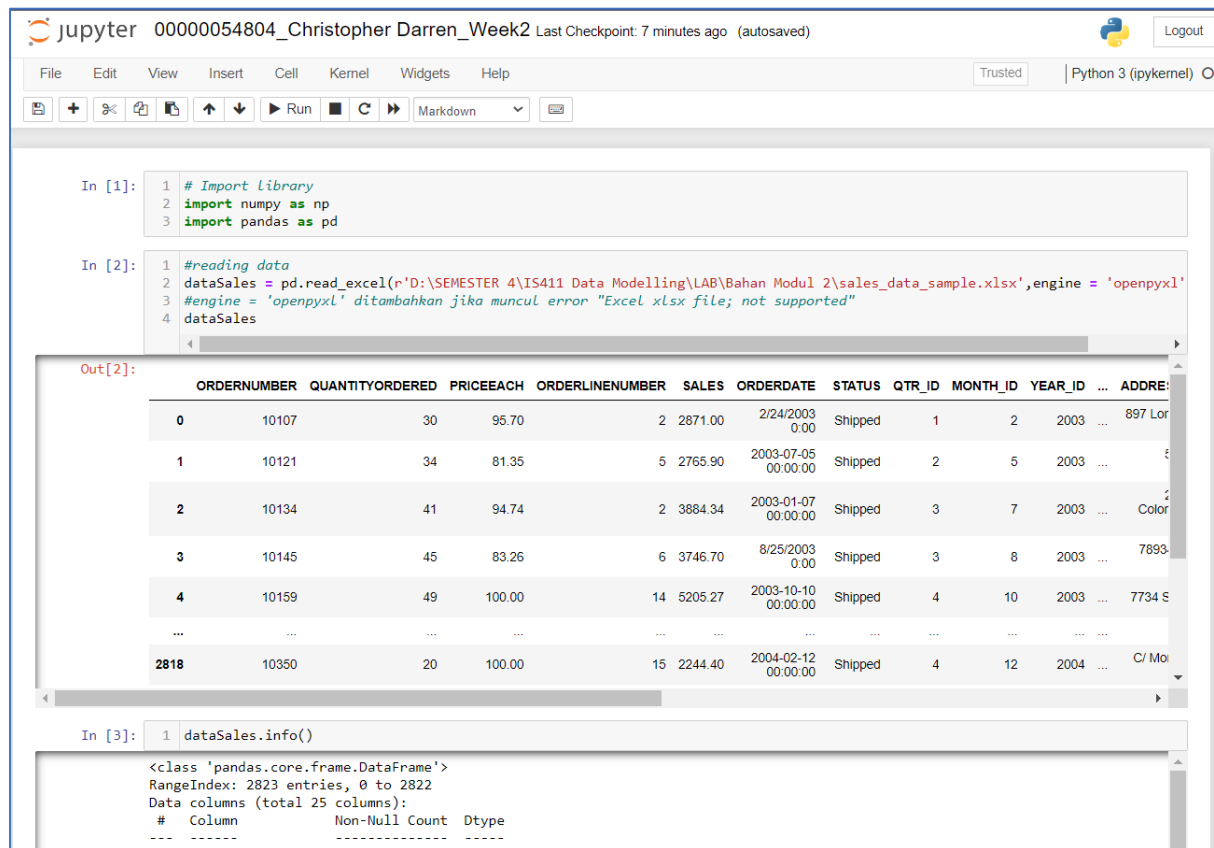


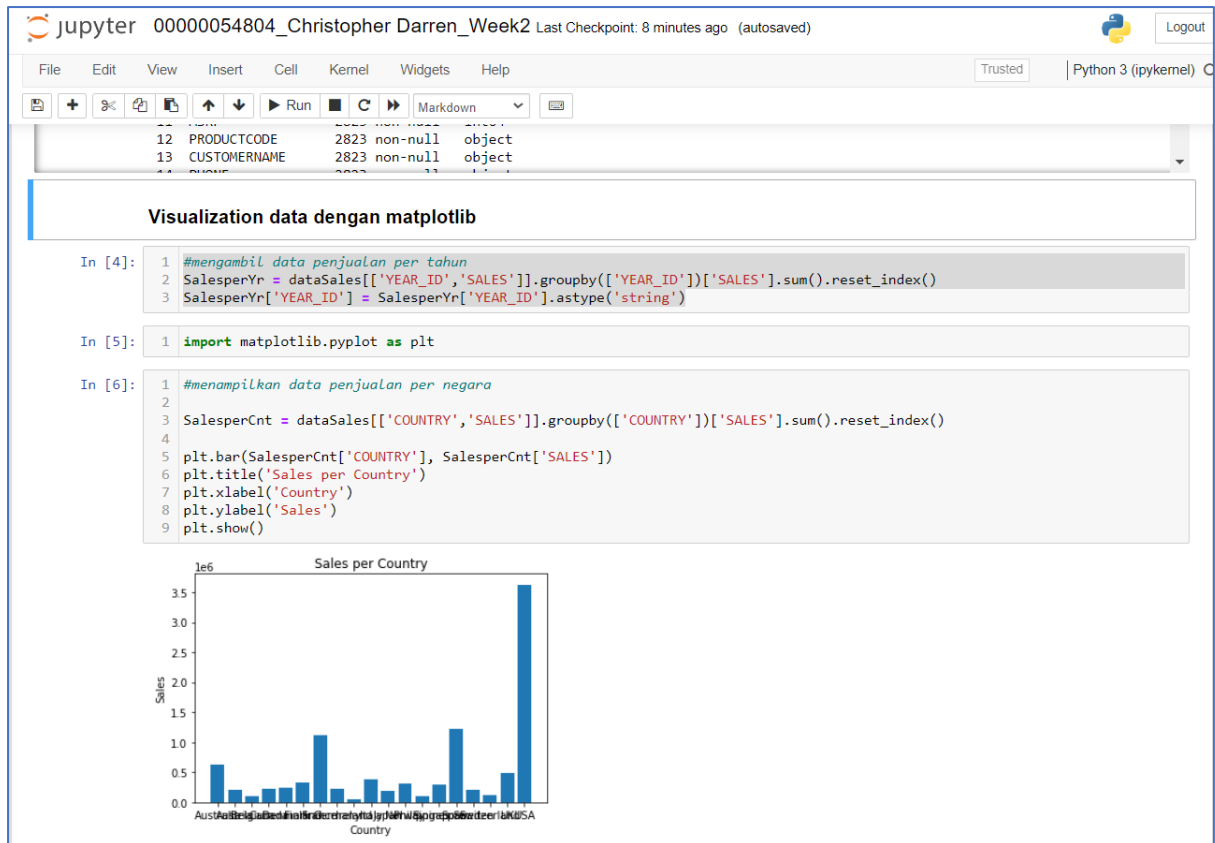
## Tugas LAB WEEK 2-ASYNCHRON Christopher Darren



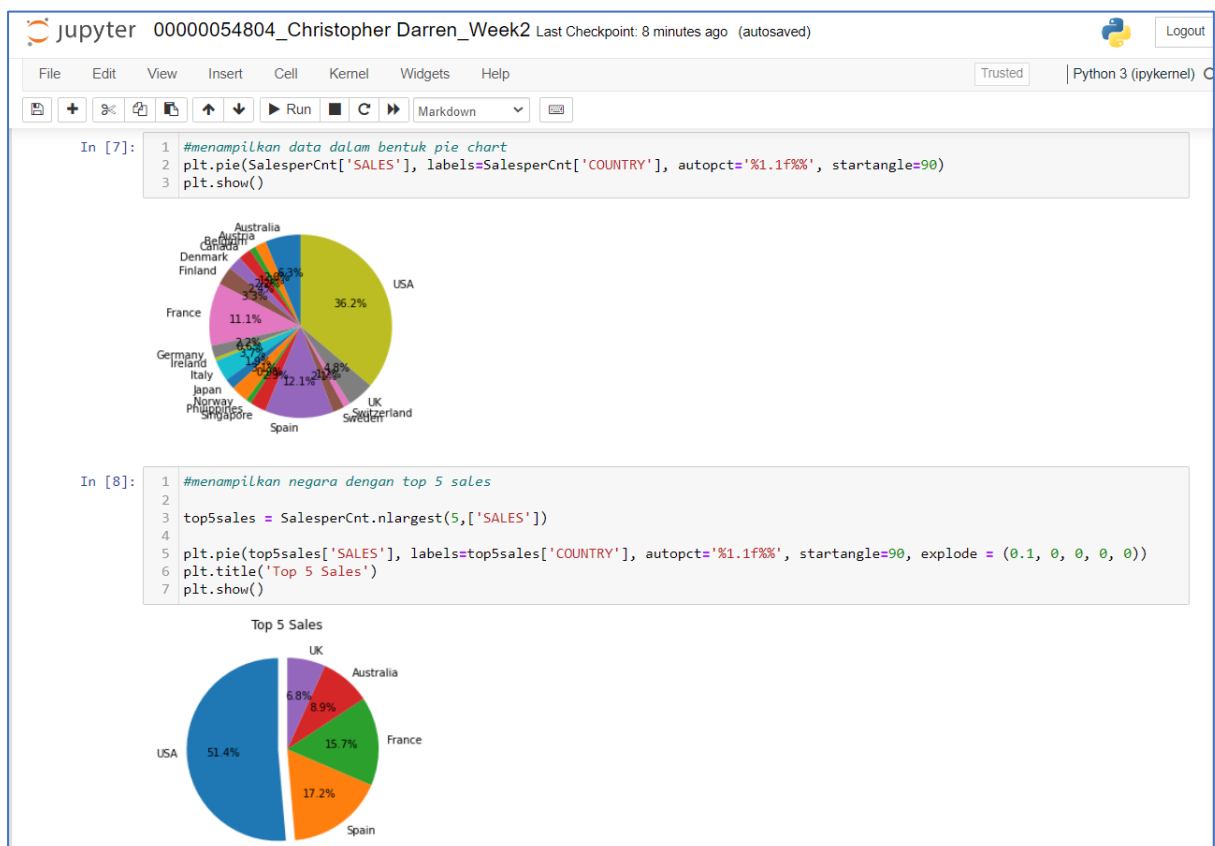
The screenshot displays a Jupyter Notebook environment with the following components:

- Header:** Jupyter logo, notebook title "00000054804\_Christopher Darren\_Week2", last checkpoint information, and a "Logout" button.
- Menu Bar:** File, Edit, View, Insert, Cell, Kernel, Widgets, Help.
- Toolbar:** Includes icons for saving, adding cells, zooming, and running code.
- Code Cells:**
  - In [1]:** Imports libraries: `# Import Library`, `import numpy as np`, and `import pandas as pd`.
  - In [2]:** Reads data from an Excel file: `#reading data`, `dataSales = pd.read_excel(r'D:\SEMESTER 4\IS411 Data Modelling\LAB\Bahan Modul 2\sales_data_sample.xlsx', engine = 'openpyxl')`, and `dataSales`.
  - In [3]:** Displays data information: `dataSales.info()`.
- Output:**
  - Out[2]:** A preview of the 'dataSales' DataFrame showing columns: ORDERNUMBER, QUANTITYORDERED, PRICEEACH, ORDERLINENUMBER, SALES, ORDERDATE, STATUS, QTR\_ID, MONTH\_ID, YEAR\_ID, and ADDRESS. It lists 2823 entries.
  - Out[3]:** The output of `dataSales.info()`, showing the DataFrame has 2823 entries and 25 columns.

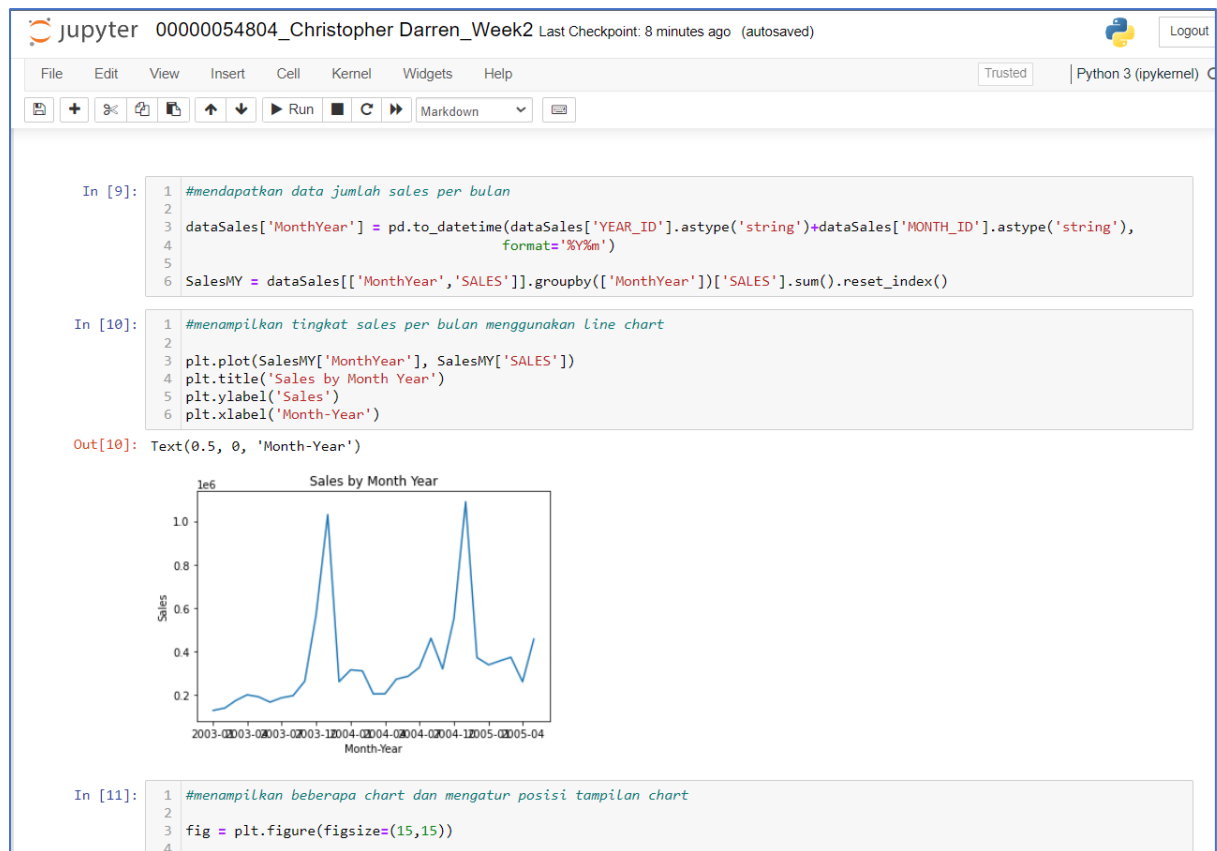
Gambar 1. Importing and Reading Data



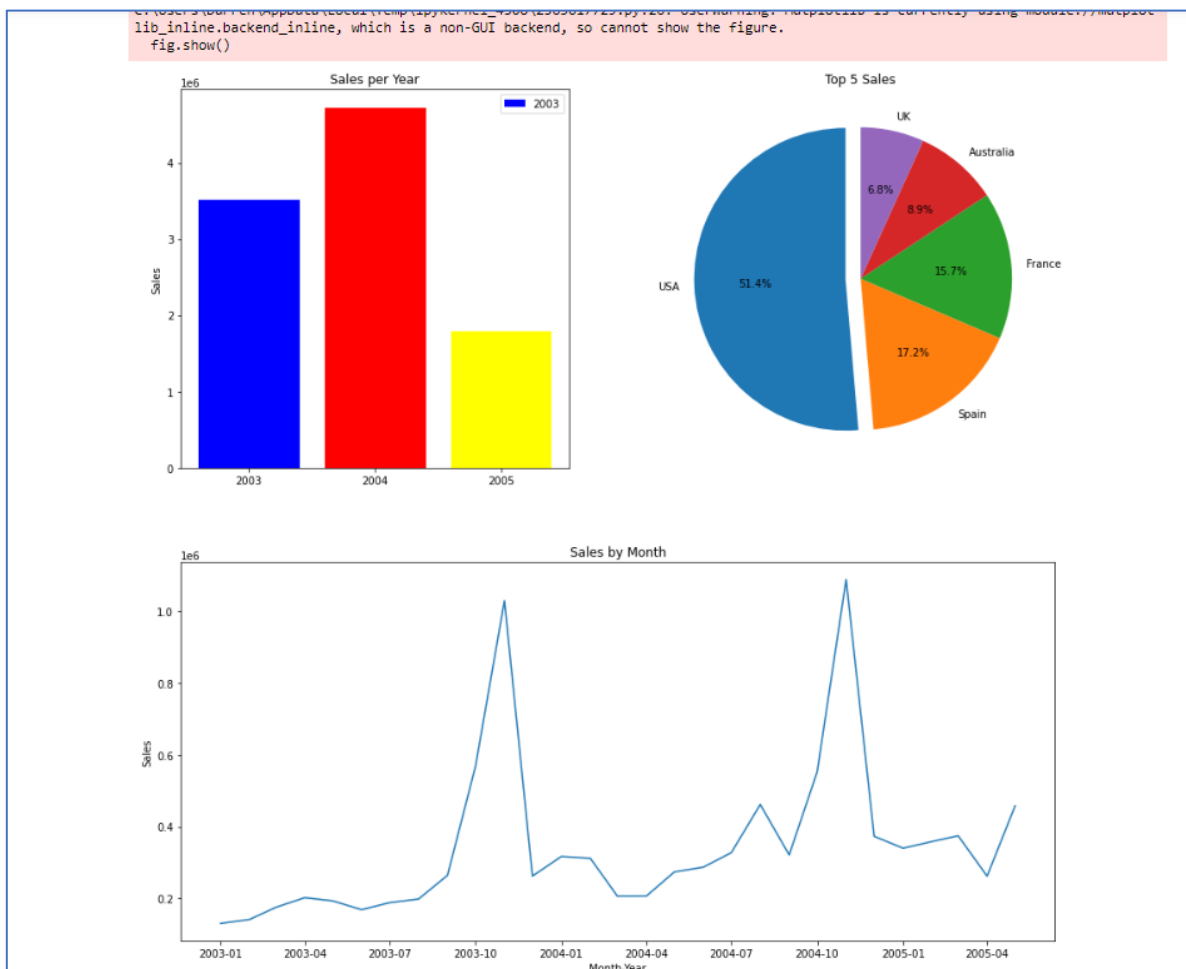
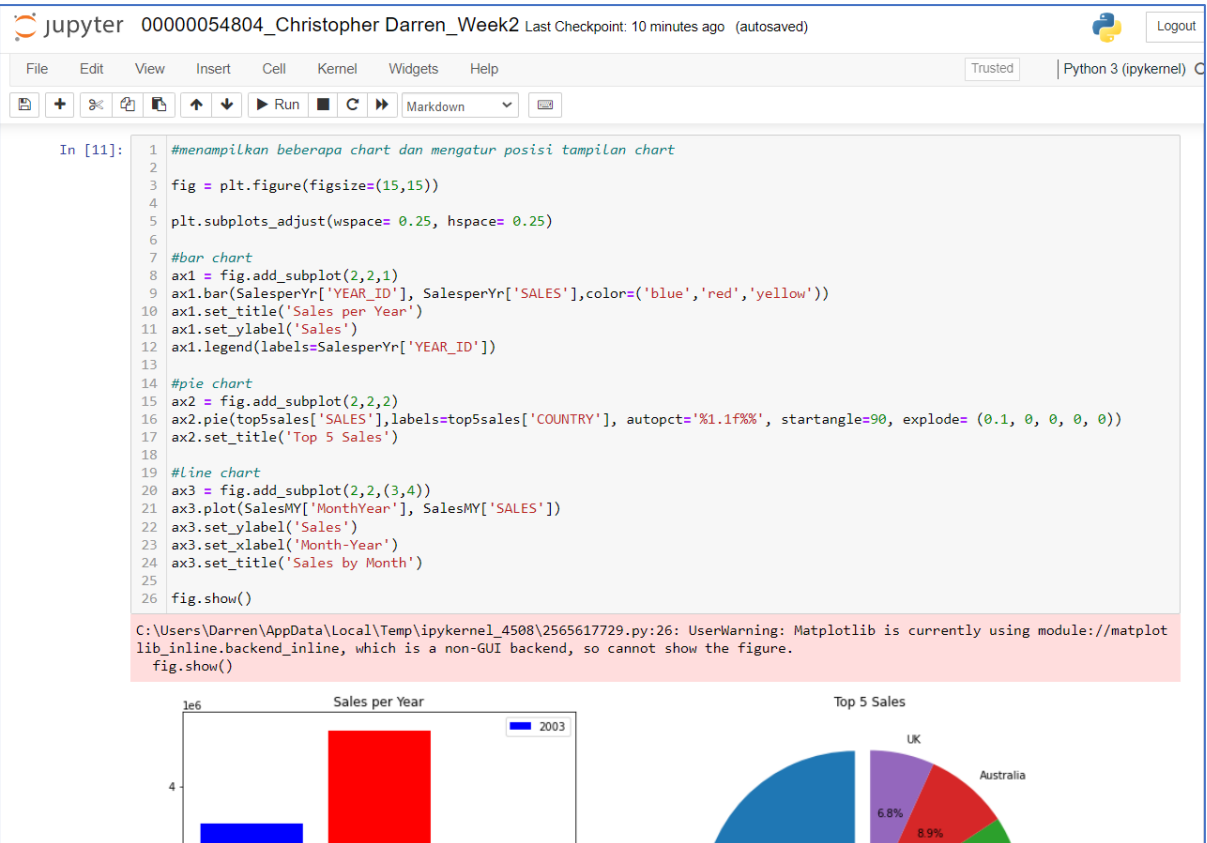
Gambar 2. Visualization Data



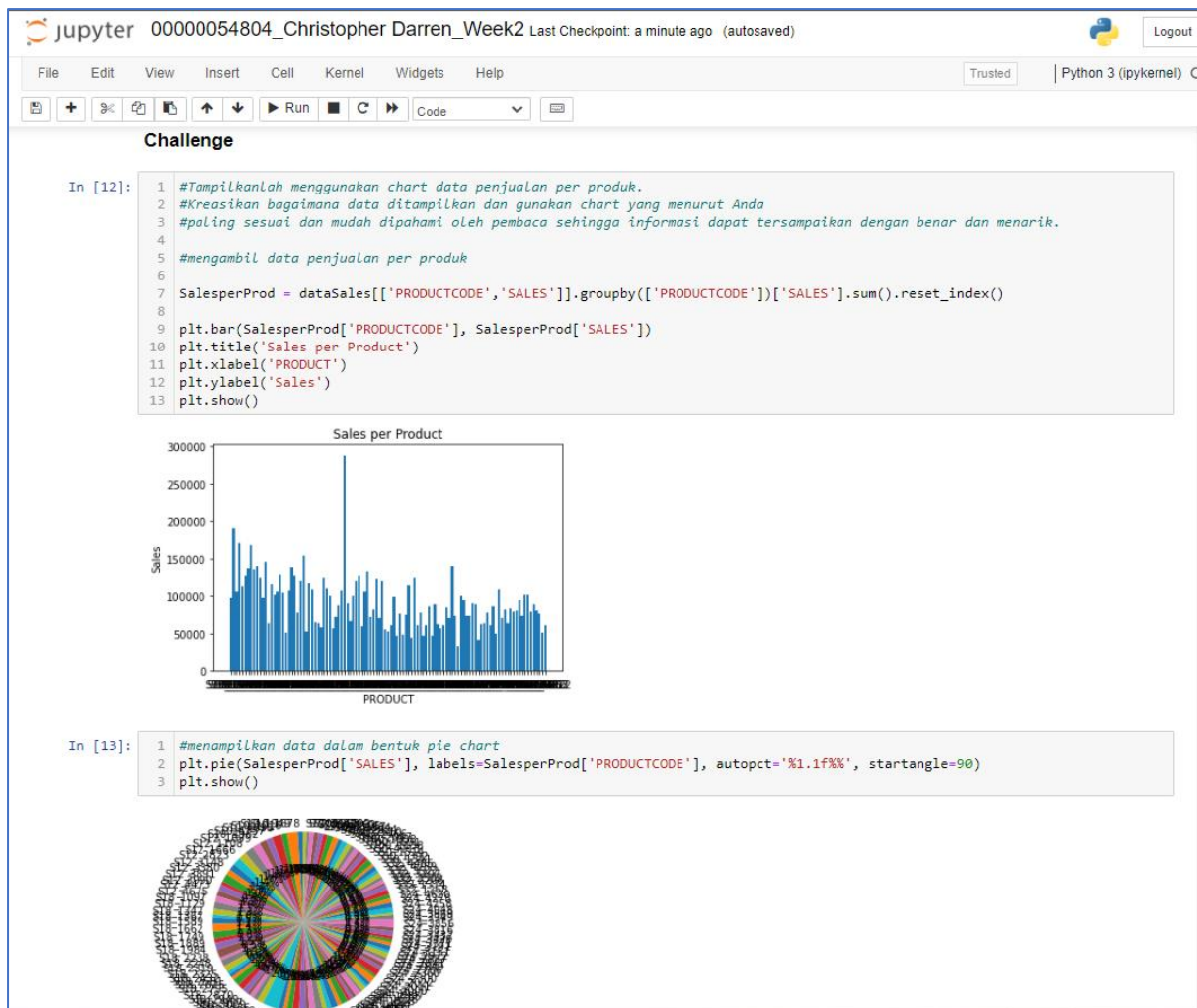
Gambar 3. Visualization Pie chart 1



Gambar 4. Line graph

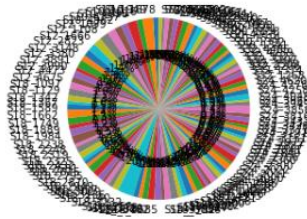


Gambar 5. Graph combo

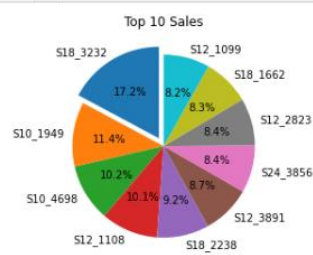


Gambar 6. Challenge

```
In [13]: 1 #menampilkan data dalam bentuk pie chart
2 plt.pie(SalesperProd['SALES'], labels=SalesperProd['PRODUCTCODE'], autopct='%1.1f%%', startangle=90)
3 plt.show()
```



```
In [14]: 1 #menampilkan produk dengan top 10 sales
2
3 top5salesProd = SalesperProd.nlargest(10,['SALES'])
4
5 plt.pie(top5salesProd['SALES'], labels=top5salesProd['PRODUCTCODE'], autopct='%1.1f%%', startangle=90, explode = (0.1, 0, 0,
6 plt.title('Top 10 Sales')
7 plt.show()
```



In [ ]: 1

Gambar 7. Pie Chart