LAPORAN PRAKTIKUM

PRAKTIK PEMROGRAMAN PYTHON

"TOPIC 15 - VISUALISASI DATA"

Disusun oleh :

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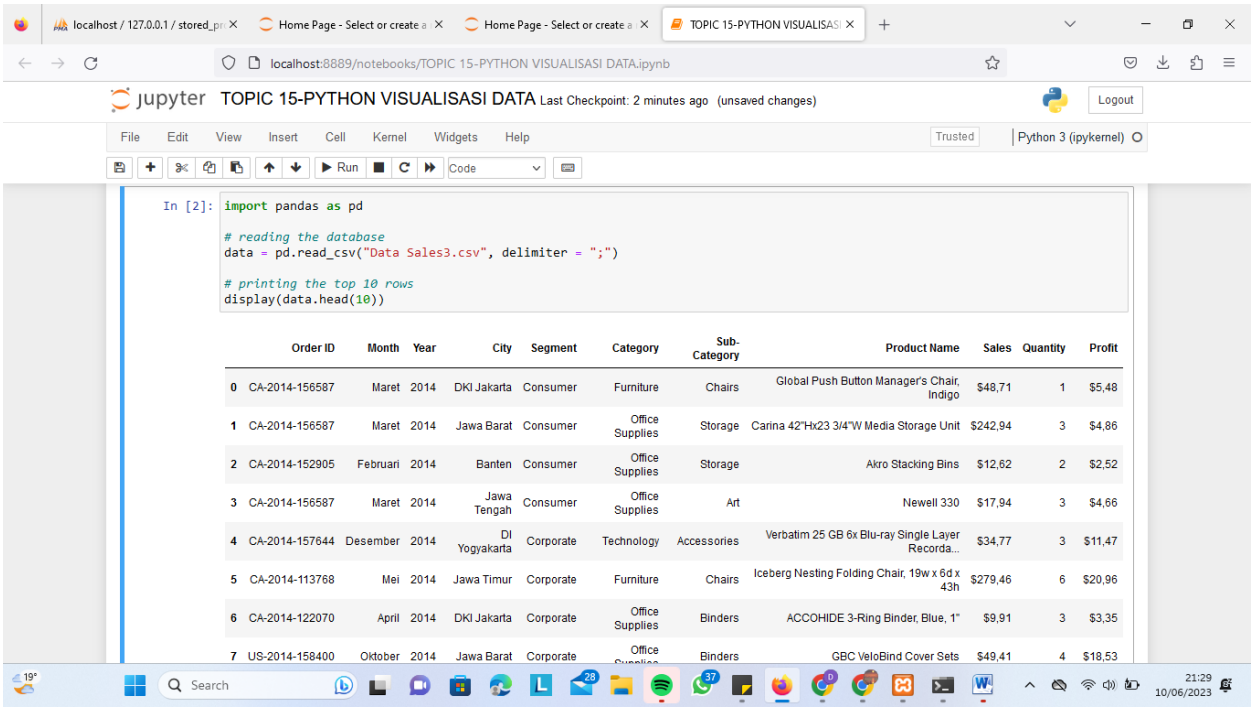
PS D-III TEKNIK INFORMATIKA

SEKOLAH VOKASI

UNIVERSITAS SEBELAS MARET

2023

1. Tabel Data Sales (Top 10 Rows):

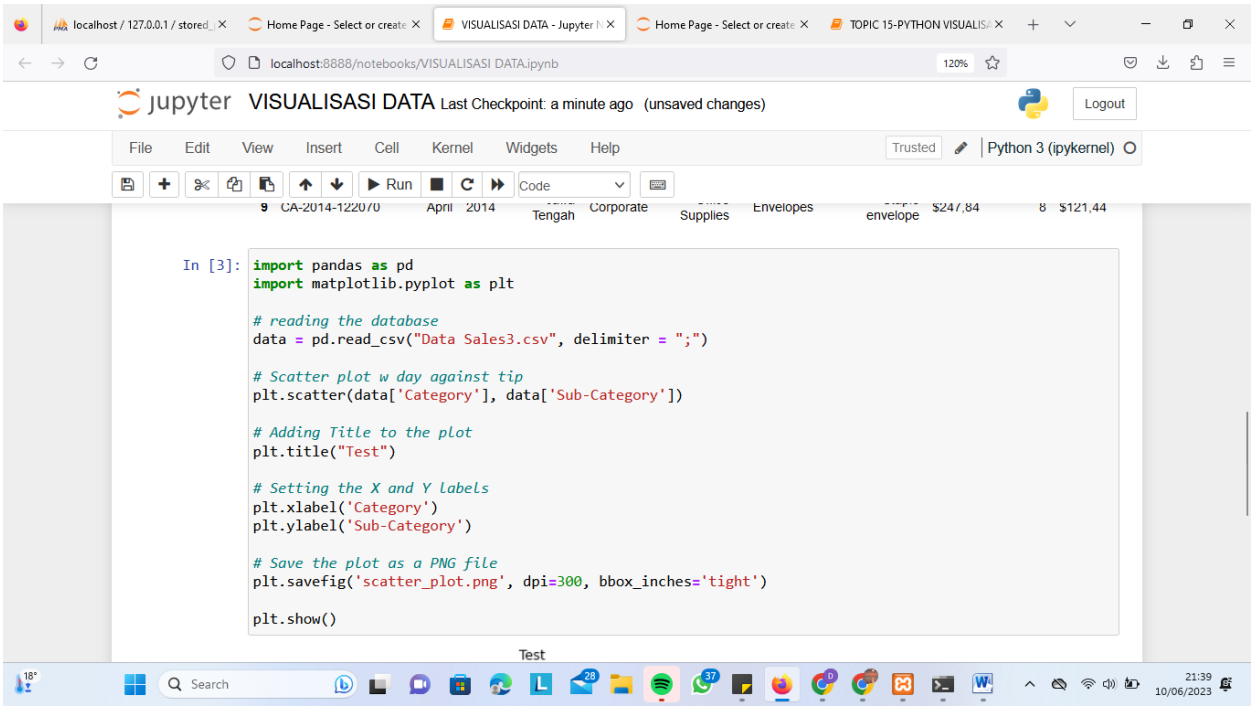


```
In [2]:
import pandas as pd

# reading the database
data = pd.read_csv("Data Sales3.csv", delimiter = ";")

# printing the top 10 rows
display(data.head(10))
```

	Order ID	Month	Year	City	Segment	Category	Sub-Category	Product Name	Sales	Quantity	Profit
0	CA-2014-156587	Maret	2014	DKI Jakarta	Consumer	Furniture	Chairs	Global Push Button Manager's Chair, Indigo	$48,71	1	$5,48
1	CA-2014-156587	Maret	2014	Jawa Barat	Consumer	Office Supplies	Storage	Carina 42"Hx23 3/4"W Media Storage Unit	$242,94	3	$4,86
2	CA-2014-152905	Februari	2014	Banten	Consumer	Office Supplies	Storage	Akro Stacking Bins	$12,62	2	$2,52
3	CA-2014-156587	Maret	2014	Jawa Tengah	Consumer	Office Supplies	Art	Newell 330	$17,94	3	$4,66
4	CA-2014-157644	Desember	2014	DI Yogyakarta	Corporate	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recorda...	$34,77	3	$11,47
5	CA-2014-113768	Mei	2014	Jawa Timur	Corporate	Furniture	Chairs	Iceberg Nesting Folding Chair, 19w x 6d x 43h	$279,46	6	$20,96
6	CA-2014-122070	April	2014	DKI Jakarta	Corporate	Office Supplies	Binders	ACCOHIDE 3-Ring Binder, Blue, 1"	$9,91	3	$3,35
7	US-2014-158400	Oktober	2014	Jawa Barat	Corporate	Office Supplies	Binders	GBC VeloBind Cover Sets	$49,41	4	$18,53

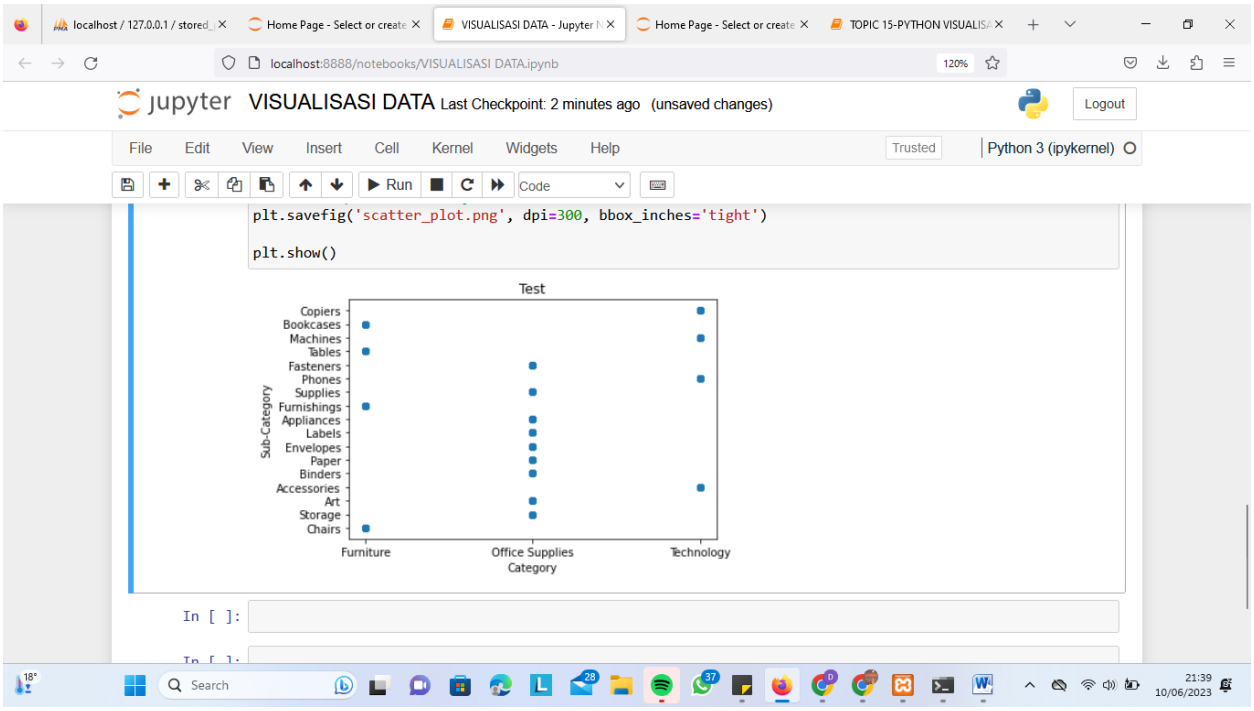
2. Scatter Plot:

Scatter plot dengan sumbu X adalah "Category" dan sumbu Y adalah "Sub-Category".



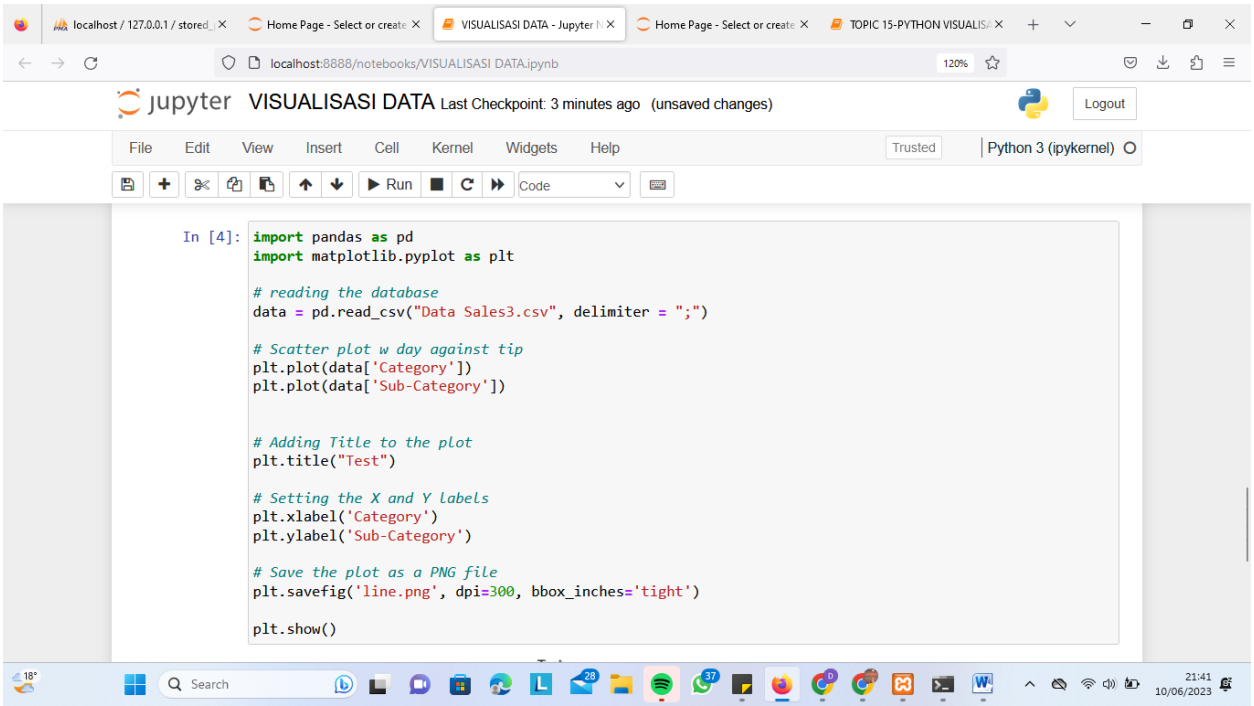
```
In [3]:
import pandas as pd
import matplotlib.pyplot as plt

# reading the database
data = pd.read_csv("Data Sales3.csv", delimiter = ";")

# Scatter plot w day against tip
plt.scatter(data['Category'], data['Sub-Category'])

# Adding Title to the plot
plt.title("Test")

# Setting the X and Y labels
plt.xlabel('Category')
plt.ylabel('Sub-Category')

# Save the plot as a PNG file
plt.savefig('scatter_plot.png', dpi=300, bbox_inches='tight')

plt.show()
```

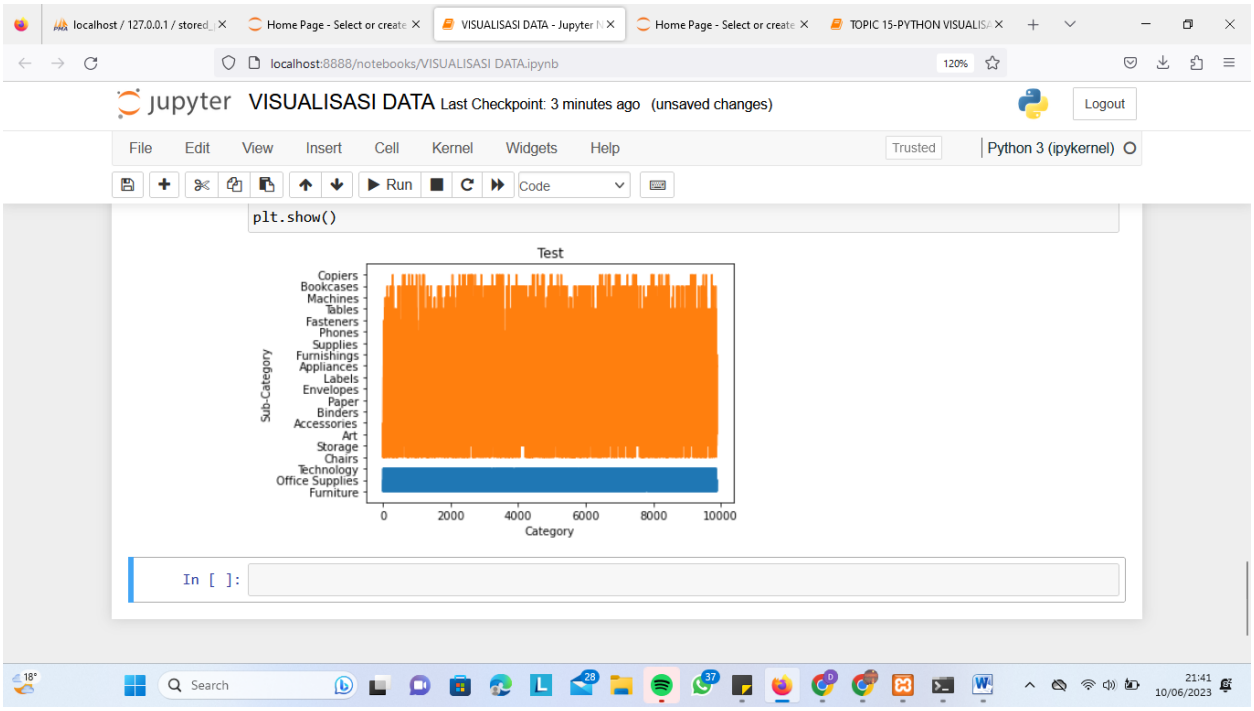
Test



3. Line Plot:

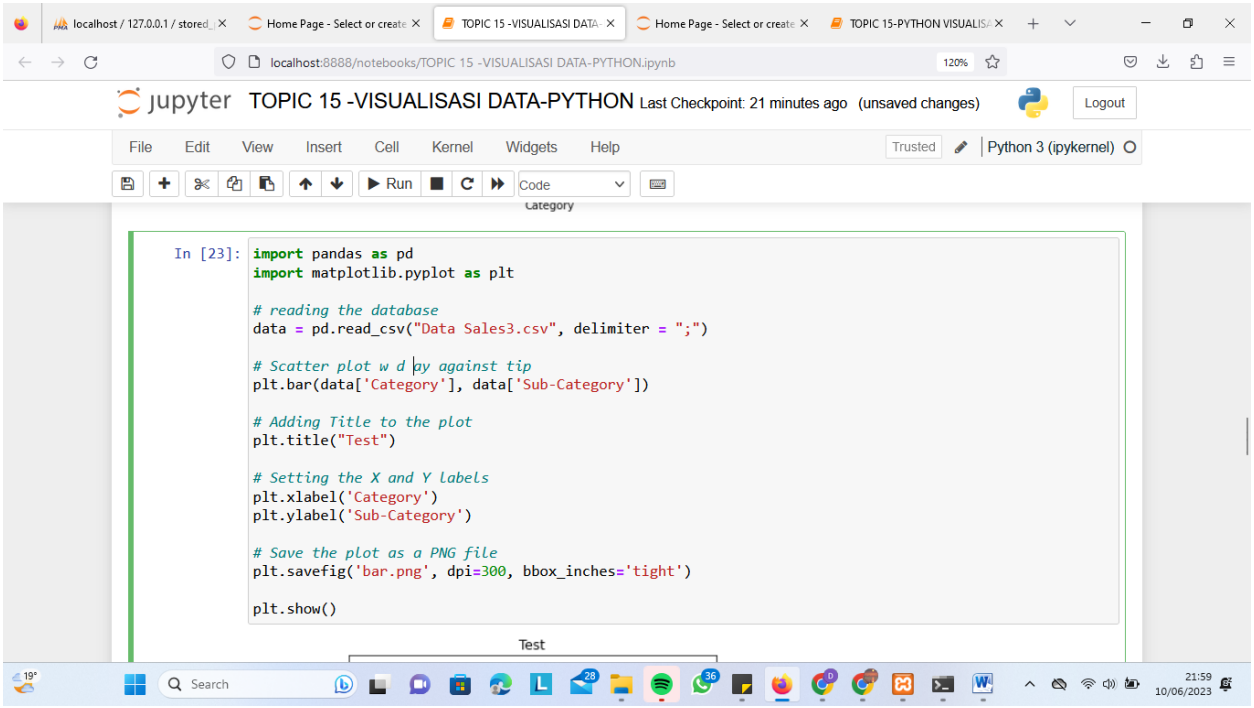
Line plot dengan sumbu X adalah indeks data dan sumbu Y terdiri dari dua garis, yaitu "Category" dan "Sub-Category".

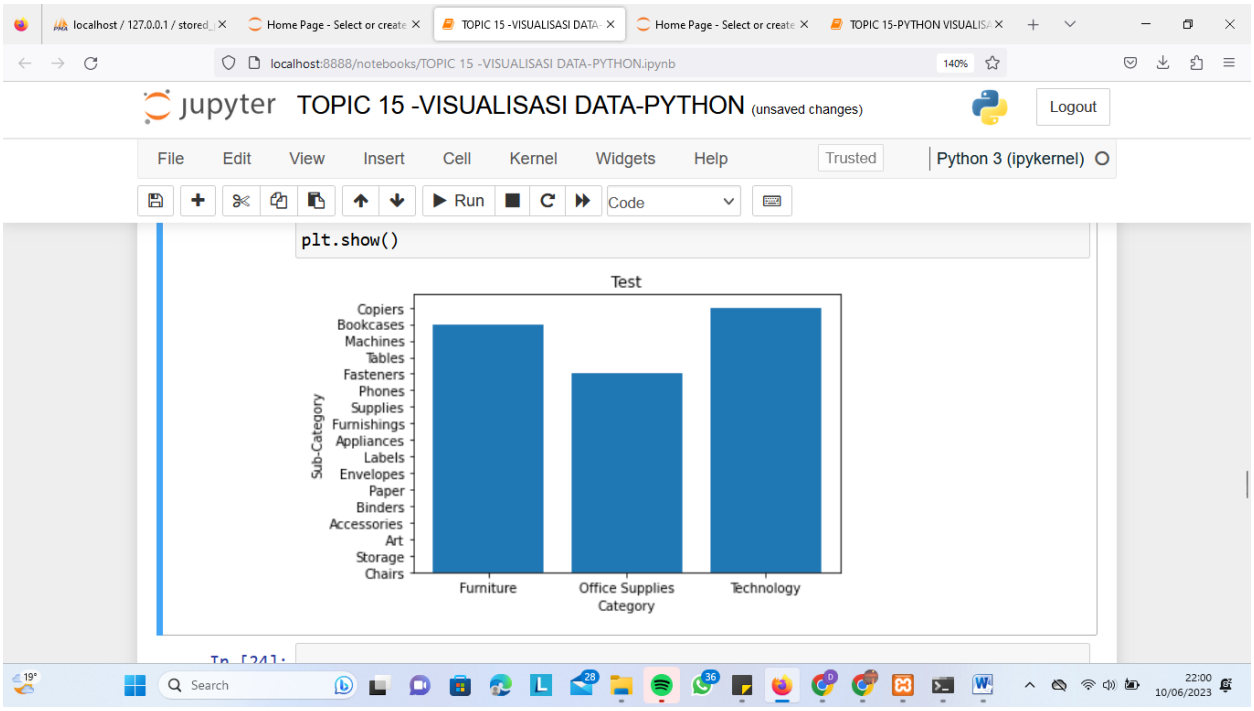




4. Bar Plot:

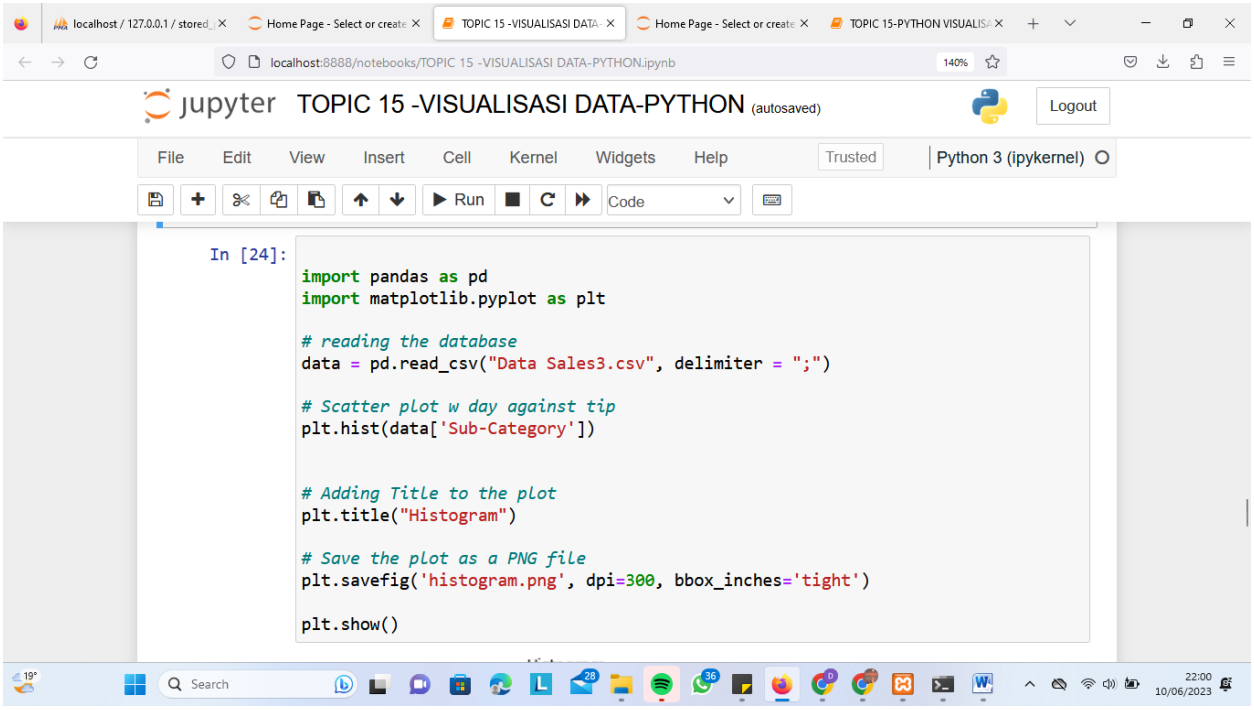
Bar plot dengan sumbu X adalah "Category" dan sumbu Y adalah "Sub-Category".

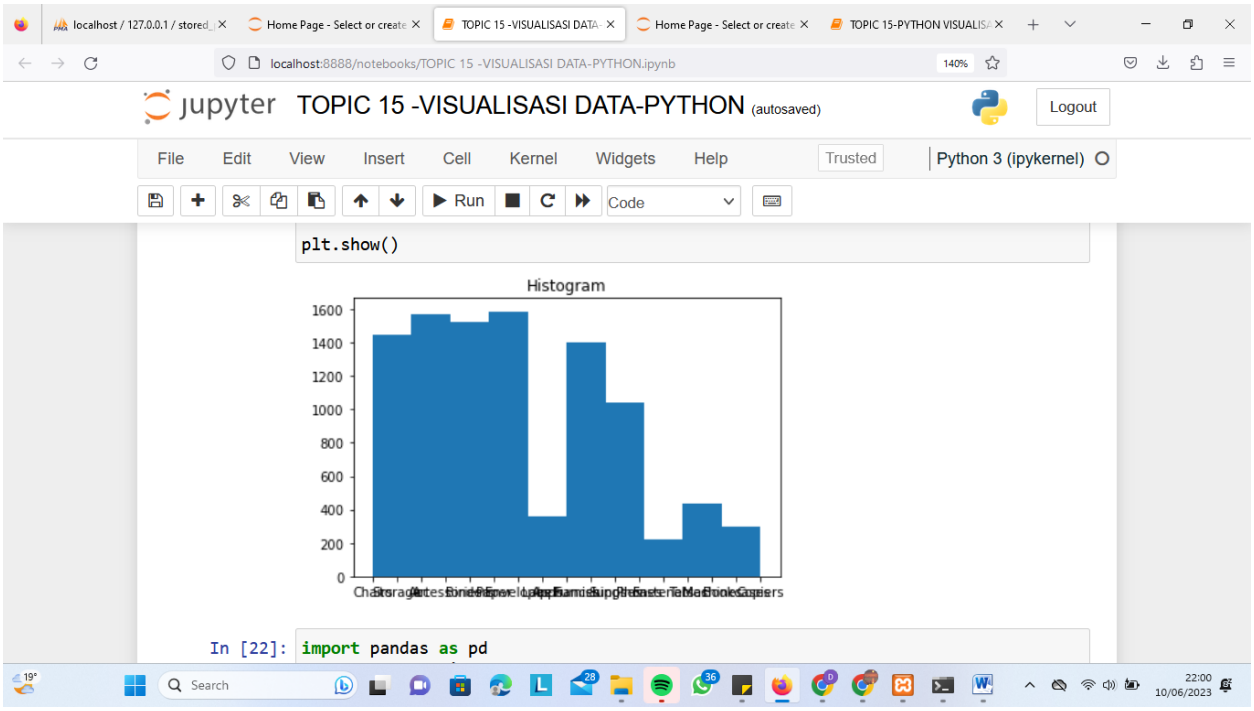




5. Histogram:

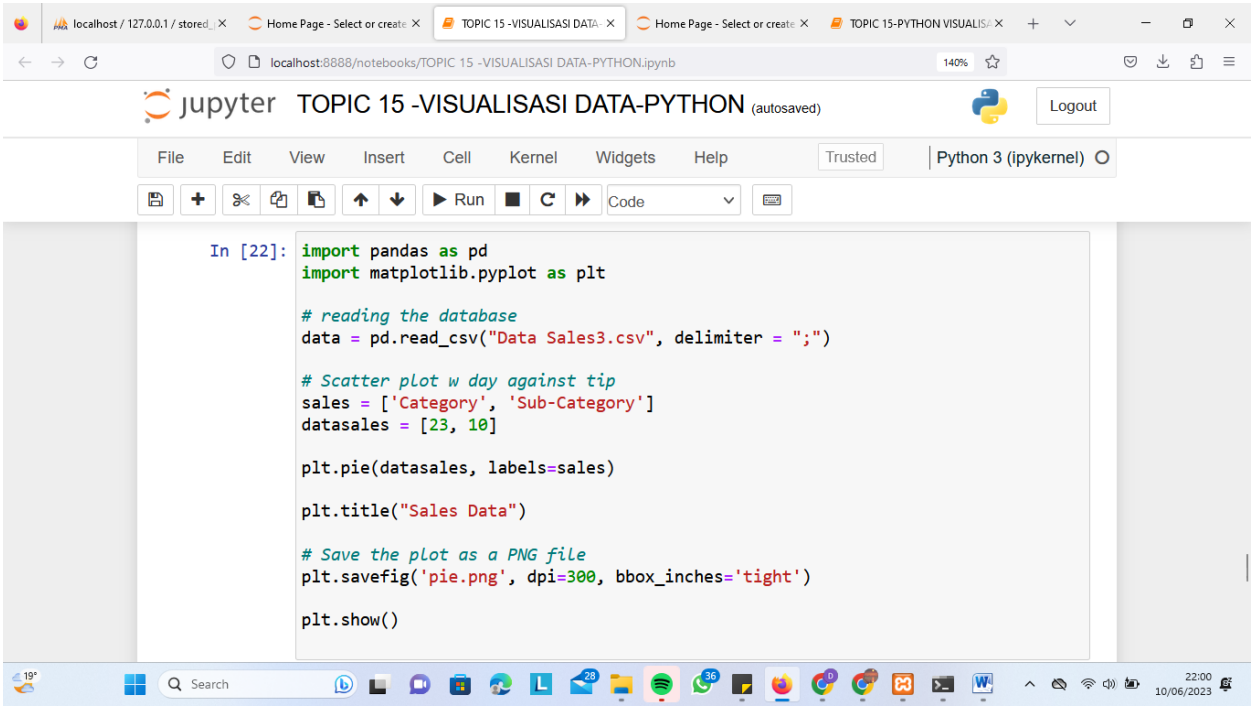
Histogram dengan sumbu X adalah "Sub-Category".

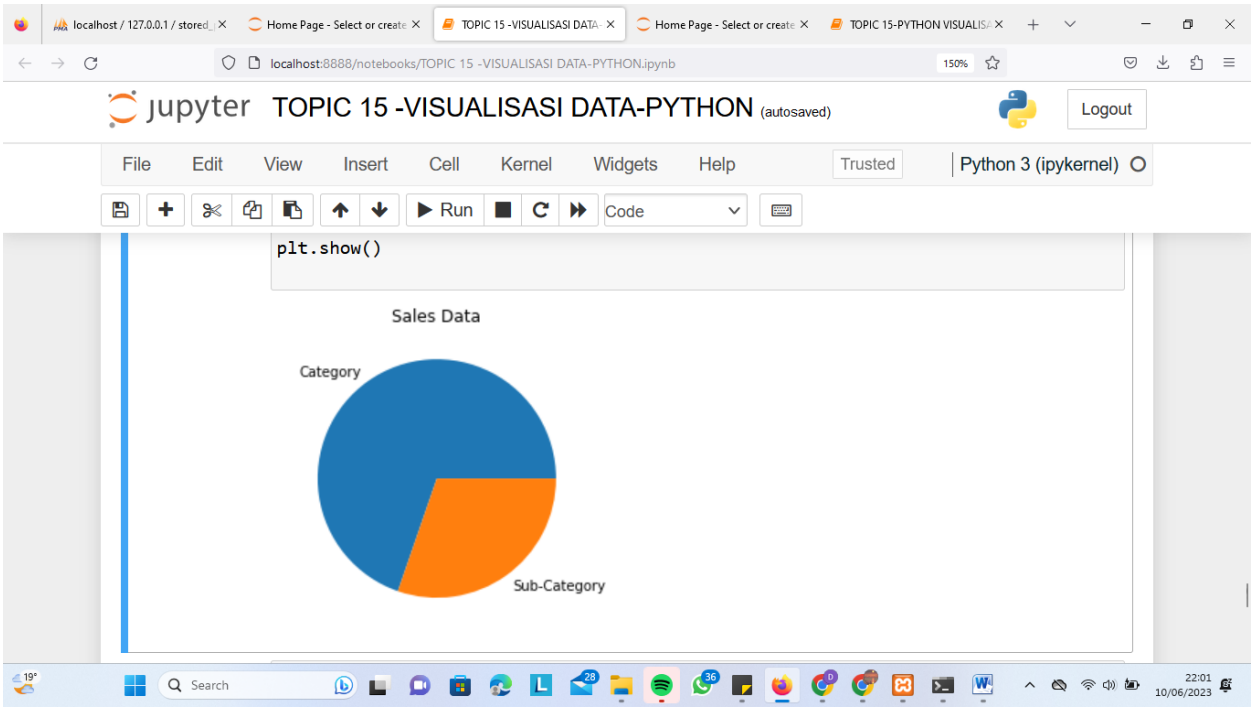




6. Pie Chart:

Pie chart menampilkan data penjualan dengan Category dan Sub-Category.

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