LAPORAN PRAKTIKUM
PEMROGRAMAN PYTHON

PRAKTIKUM
DATA
VISUALIZATION

Disusun oleh:
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Dosen
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PS D-III TEKNIK INFORMATIKA
SEKOLAH VOKASI
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HASIL DAN PEMBAHASAN:

INPUT:

```
In [1]: import pandas as pd

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

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

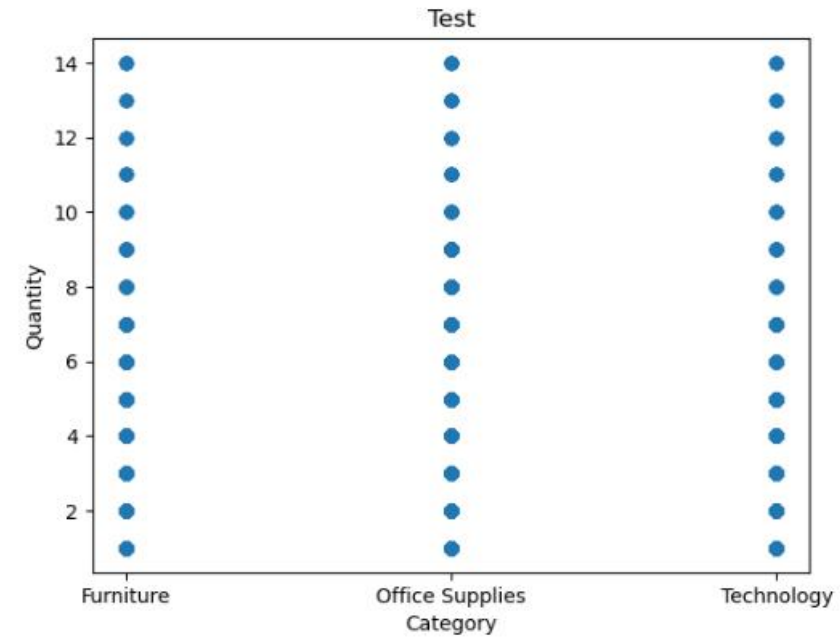
OUTPUT:

	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
8	CA-2014-113768	Mei	2014	Banten	Corporate	Office Supplies	Paper	EcoTones Memo Sheets	$8,00	2	$3,84
9	CA-2014-122070	April	2014	Jawa Tengah	Corporate	Office Supplies	Envelopes	Staple envelope	$247,84	8	$121,44

INPUT:

In [2]:
```
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['Quantity'])

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

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

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

plt.show()
```

OUTPUT:

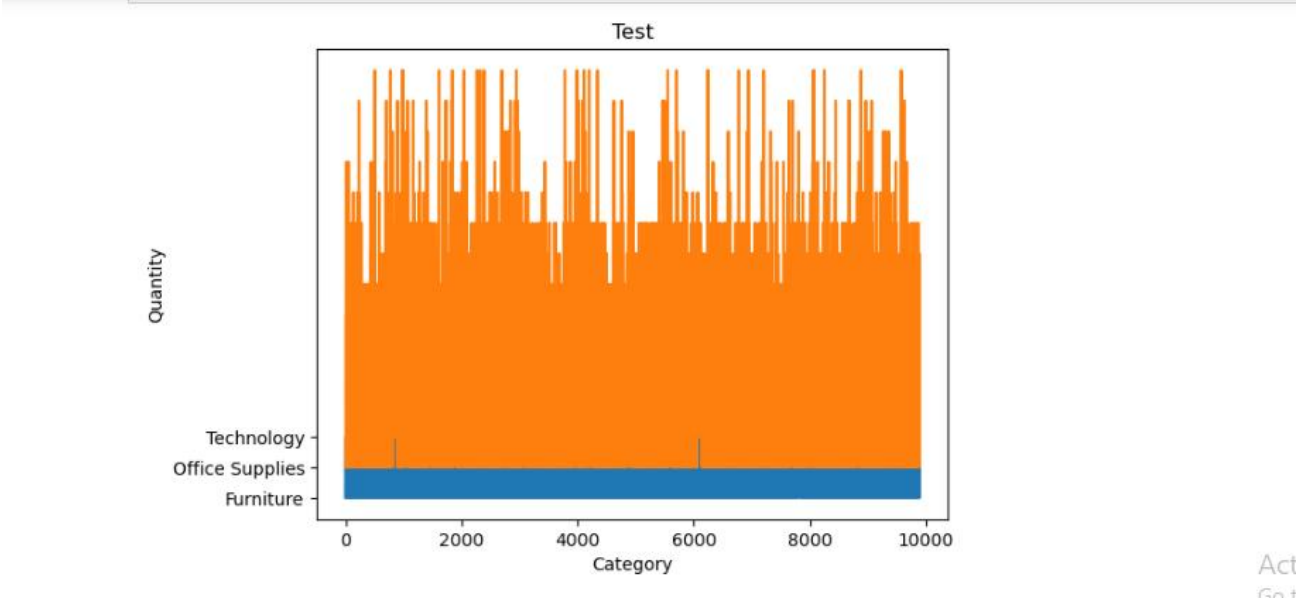


INPUT:

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.plot(data['Category'])
plt.plot(data['Quantity'])


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

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

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

plt.show()
```

OUTPUT:

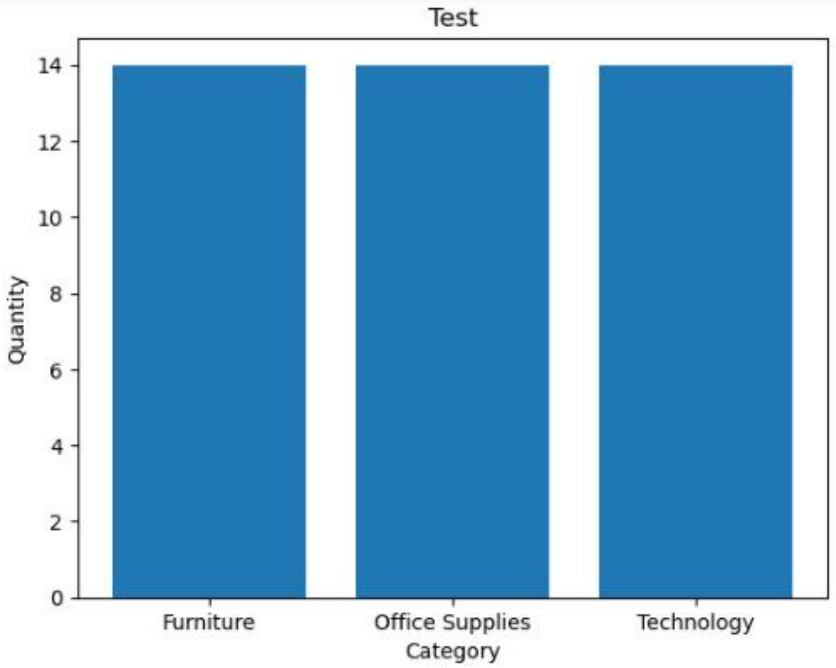


INPUT:

In [6]:

```
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.bar(data['Category'], data['Quantity'])

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

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

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

plt.show()
```

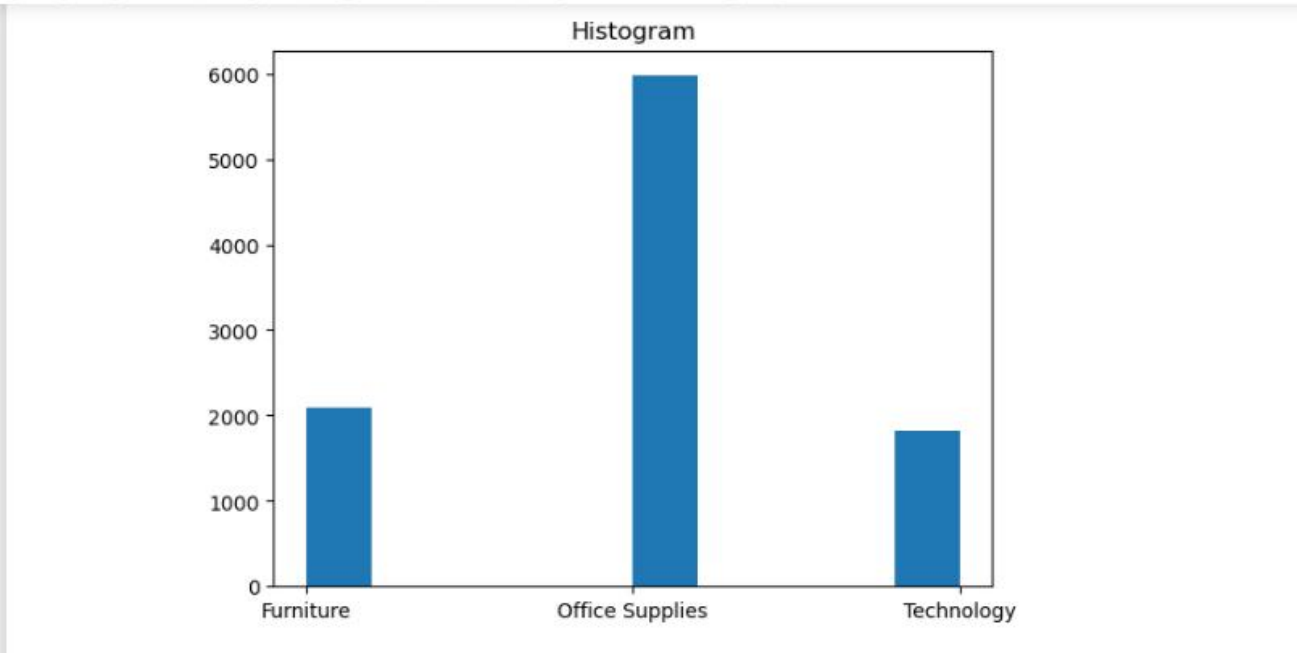
OUTPUT:



INPUT:

In [7]:
```
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.hist(data['Category'])


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

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

plt.show()
```

OUTPUT:



INPUT:

In [8]:
```
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
sales = ['Category', 'Quantity']
datasales = [23, 10]

plt.pie(datasales, labels=sales)

plt.title("Sales Data")

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

plt.show()
```

OUTPUT: