

MATPLOTLIB PROGRAMES

LINE CHART

```
[62]: import matplotlib.pyplot as plt
```

```
x = [10, 20, 30, 40]
```

```
y = [20, 25, 35, 55]
```

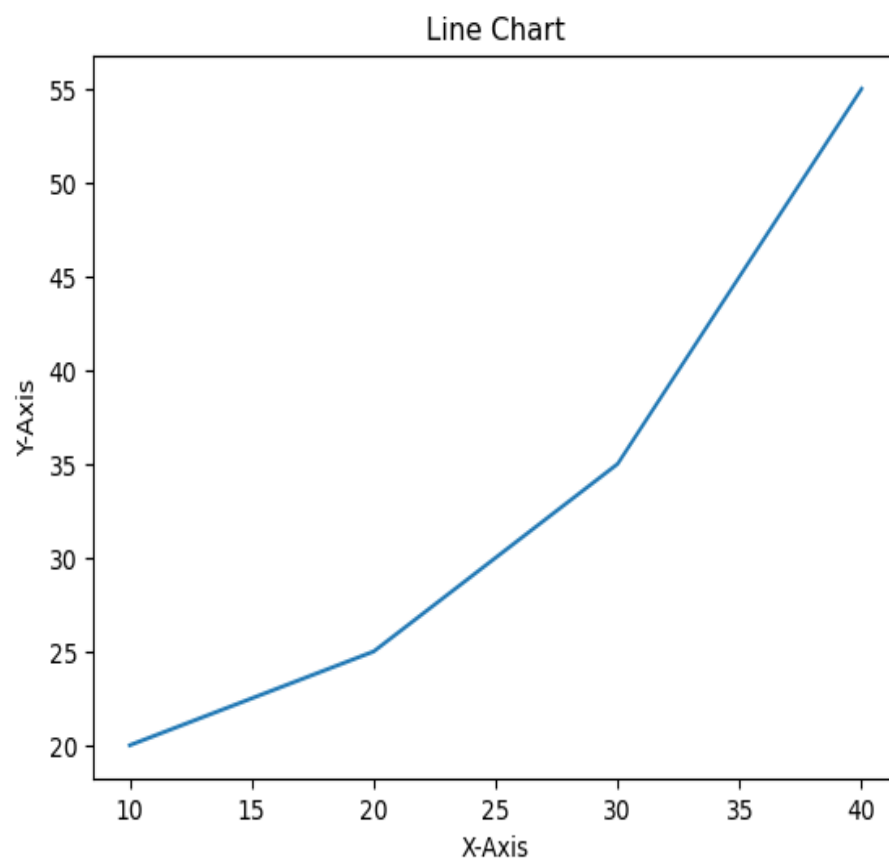
```
plt.plot(x, y)
```

```
plt.title("Line Chart")
```

```
plt.ylabel('Y-Axis')
```

```
plt.xlabel('X-Axis')
```

```
plt.show()
```



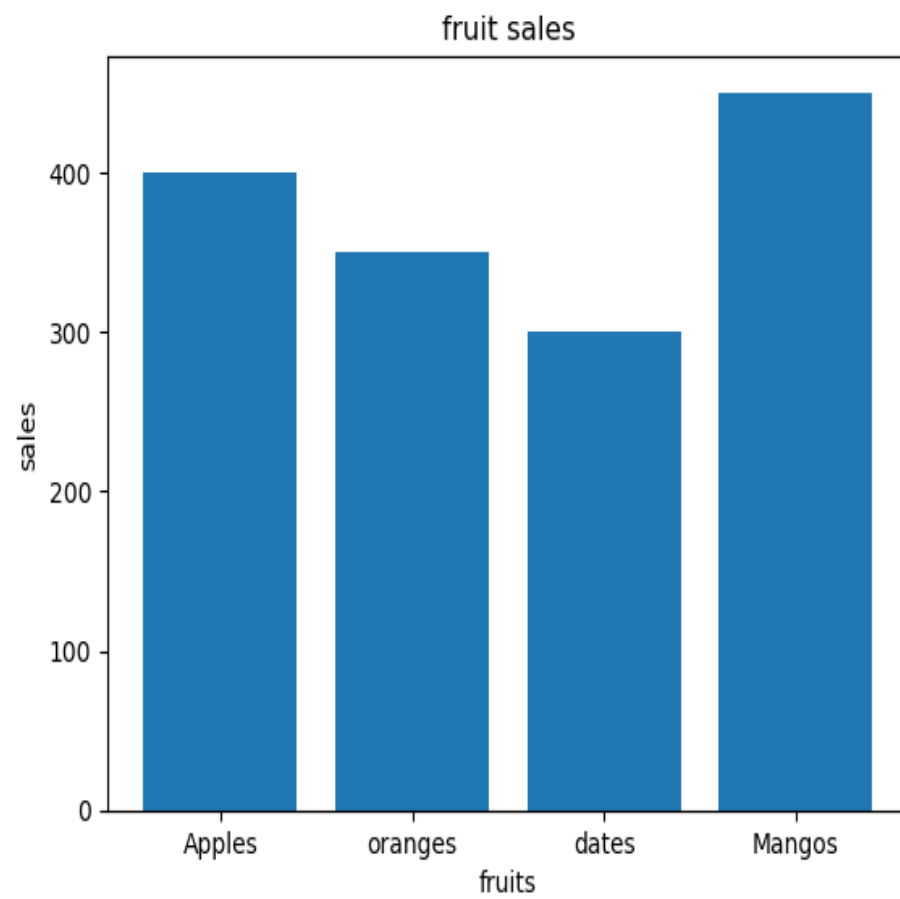
BAR CHART

```
[10]: import matplotlib.pyplot as plt
import numpy as np

fruits = ['Apples', 'Bananas', 'Cherries', 'Dates']
sales = [400, 350, 300, 450]

plt.bar(fruits, sales)
plt.title('Fruit Sales')
plt.xlabel('Fruits')
plt.ylabel('Sales')
plt.show()
```

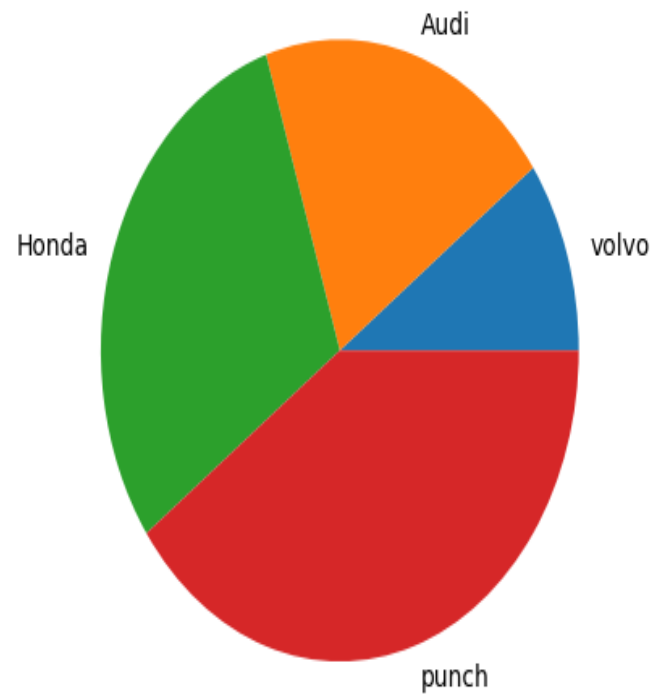
Fruit Sales




PIE CHART

```
[40]: import matplotlib.pyplot as plt  
cars=['volvo', 'Audi', 'Honda', 'punch']  
sales=[1,2,3,4]  
plt.pie(sales, labels=cars)  
plt.title('pie_chart')  
plt.show()
```

pie_chart



SCATTER CHART



The image shows a JupyterLab interface. At the top, the title bar says "jupyter Untitled3 Last Checkpoint: 3 months ago". Below the title bar is a menu bar with "File", "Edit", "View", "Run", "Kernel", "Settings", and "Help". To the right of the menu bar is a "Trusted" button. Below the menu bar is a toolbar with icons for file operations and execution. The main area contains a code cell with the following Python code:

```
[36]: import matplotlib.pyplot as plt
import numpy as np

fruits = ['Apples', 'Bananas', 'Cherries', 'Dates']
sales = [400, 350, 300, 450]

plt.scatter(fruits, sales, color='red')
plt.title('Fruit Sales')
plt.xlabel('Fruits')
plt.ylabel('Sales')
plt.show()
```