BERNARDO, Luke Joaquin - 302I

Basic line plot

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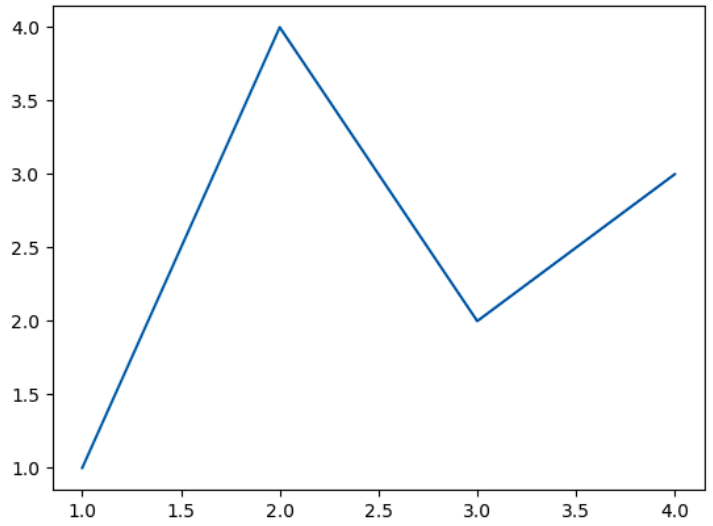
Code JupyterLab Python (Pyodide)

[1]:
```
import matplotlib.pyplot as plt

fig, ax = plt.subplots()
ax.plot([1, 2, 3, 4], [1, 4, 2,3])
plt.show()
```

```
Matplotlib is building the font cache; this may take a moment.
```



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Two line series

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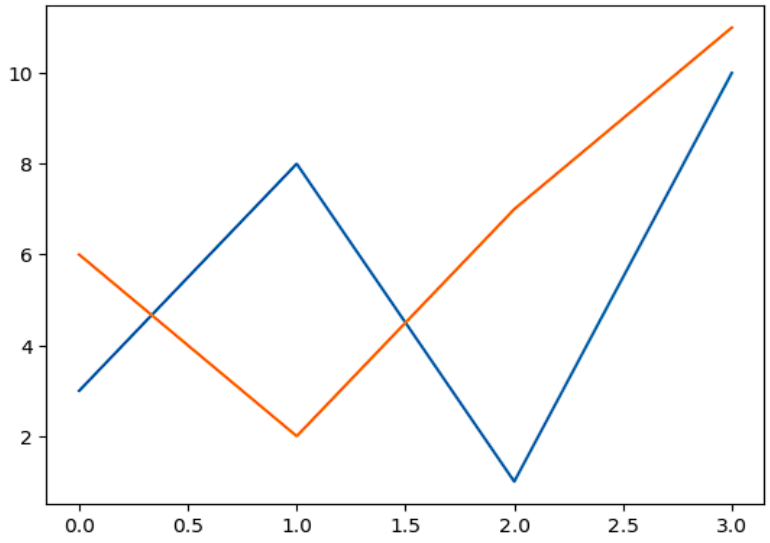
Code JupyterLab Python (Pyodide)

[2]:
```
import matplotlib.pyplot as plt
import numpy as np

y1 = np.array([3,8, 1, 10])
y2 = np.array([6, 2, 7, 11])

plt.plot(y1)
plt.plot(y2)

plt.show()
```



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Simple scatter plot

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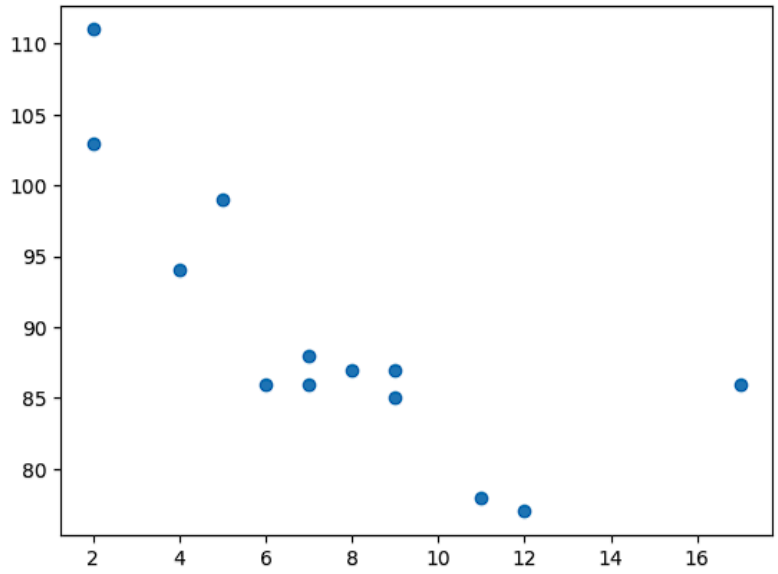
Code JupyterLab Python (Pyodide)

[3]:
```
import matplotlib.pyplot as plt
import numpy as np

x = np.array([5,7,8,7,2,17,2,9,4,11,12,9,6])
y = np.array([99,86,87,88,111,86,103,87,94,78,77,85,86])

plt.scatter(x, y)
plt.show()
```



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Scatter with color and size

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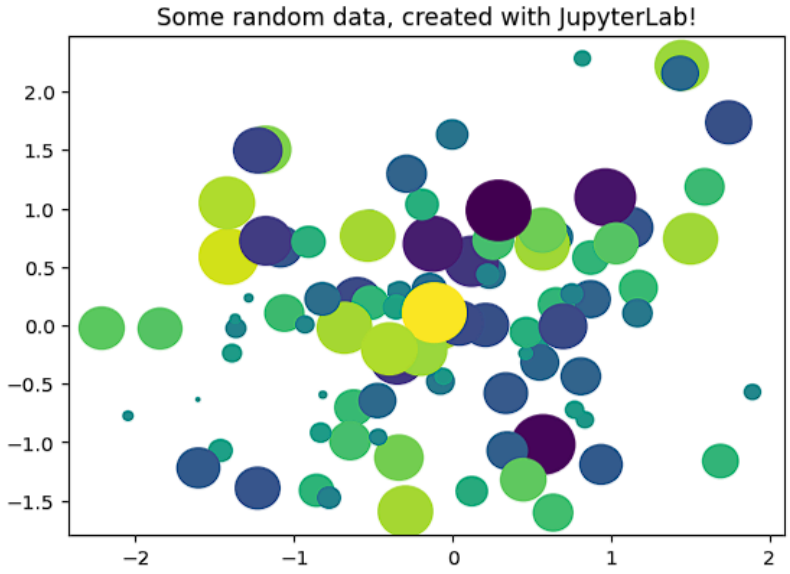
Code JupyterLab Python (Pyodide)

[4]:
```
from matplotlib import pyplot as plt
import numpy as np

#Generate 100 random data points along 3 dimension
x,y, scale = np.random.randn(3,100)
fig, ax = plt.subplots()

#Map each onto a scatterplot we'll create with Matplotlib
ax.scatter(x=x, y=y, c=scale, s=np.abs(scale)*500)
ax.set(title="Some random data, created with JupyterLab!")
plt.show()
```



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Bar chart (4 bars)

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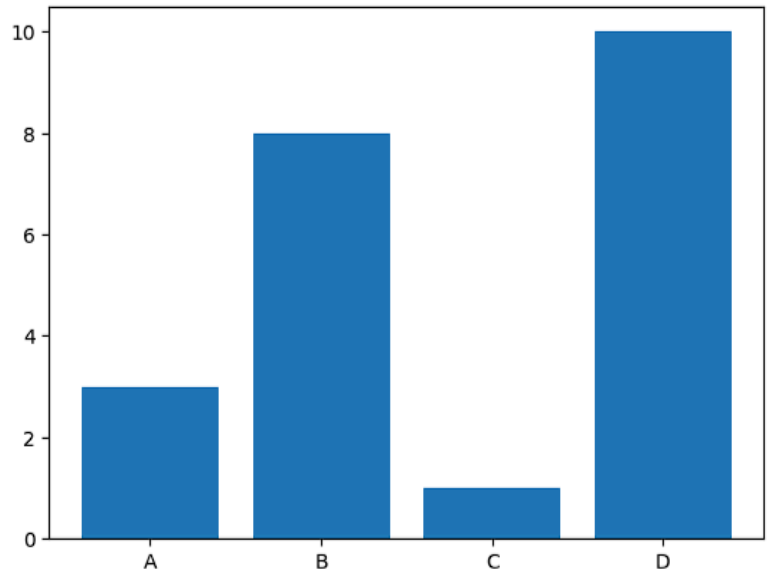
Code JupyterLab Python (Pyodide)

[5]:
```
import matplotlib.pyplot as plt
import numpy as np

x = np.array(["A", "B", "C", "D"])
y = np.array([3, 8, 1, 10])

plt.bar(x,y)
plt.show()
```



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Simple histogram

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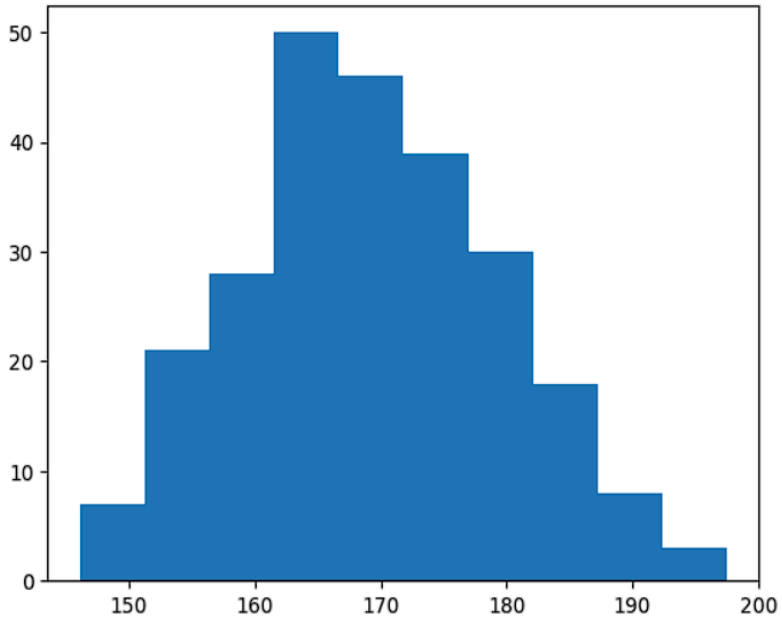
Code JupyterLab Python (Pyodide)

[6]:
```
import matplotlib.pyplot as plt
import numpy as np
x = np.random.normal(170, 10, 250)
plt.hist(x)
plt.show()
```



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Simple pie chart

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Code JupyterLab Python (Pyodide)

[7]:
```
import matplotlib.pyplot as plt
import numpy as np
y = np.array([35, 25, 25, 15])
plt.pie(y)
plt.show()
```

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