

Cheat Sheet

MATPLOTLIB

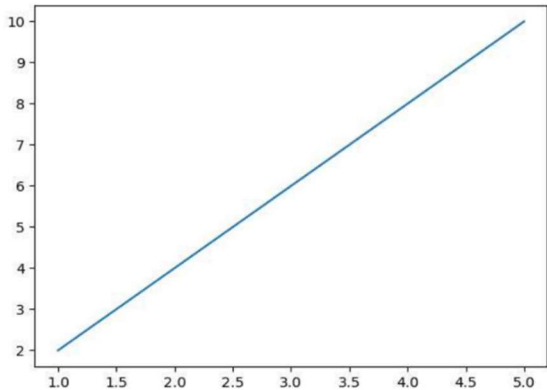
By Kamal Batcha

1. Import Matplotlib:

```
import matplotlib.pyplot as plt
```

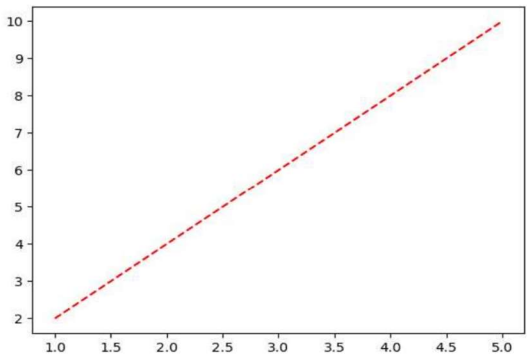
2. Basic Plotting:

```
x = [1, 2, 3, 4, 5]
y = [2, 4, 6, 8, 10]
plt.plot(x, y)
plt.show()
```



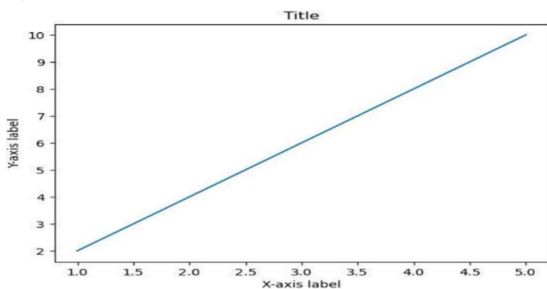
3. Line Style and Color

```
plt.plot(x, y, linestyle="--", color="r")
plt.show()
```



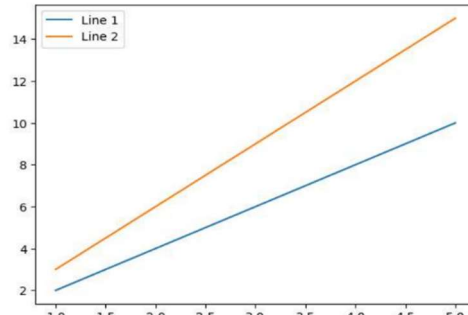
4. Labeling the plot

```
plt.plot(x, y)
plt.title("Title")
plt.xlabel("X-axis label")
plt.ylabel("Y-axis label")
plt.show()
```



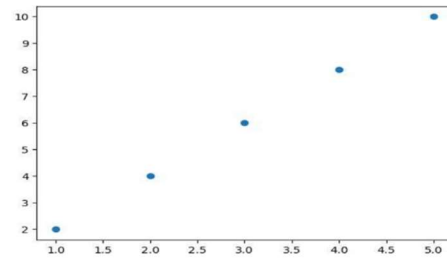
5. Adding Legend:

```
plt.plot(x, y, label="Line 1")
plt.plot(x, [3, 6, 9, 12, 15], label="Line 2")
plt.legend()
plt.show()
```



6. Scatter plot

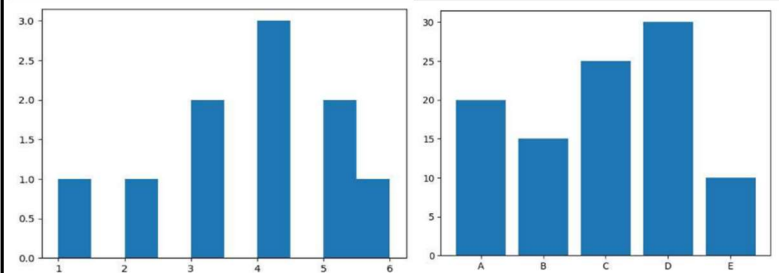
```
x = [1, 2, 3, 4, 5]
y = [2, 4, 6, 8, 10]
plt.scatter(x, y)
plt.show()
```



7. Histogram & Barplot

```
data = [1, 2, 3, 3, 4, 4, 4, 5, 5, 6]
plt.hist(data)
plt.show()
```

```
x = ["A", "B", "C", "D", "E"]
y = [20, 15, 25, 30, 10]
plt.bar(x, y)
plt.show()
```



8. SubPlots:

```
plt.subplot(2, 2, 1)
plt.plot(x, y)
plt.subplot(2, 2, 2)
plt.scatter(x, y)
plt.subplot(2, 2, 3)
plt.hist(data)
plt.subplot(2, 2, 4)
plt.bar(x, y)
plt.show()
```

