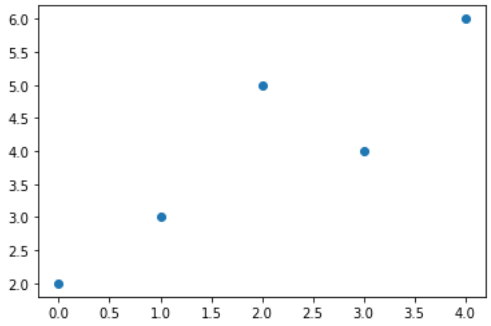
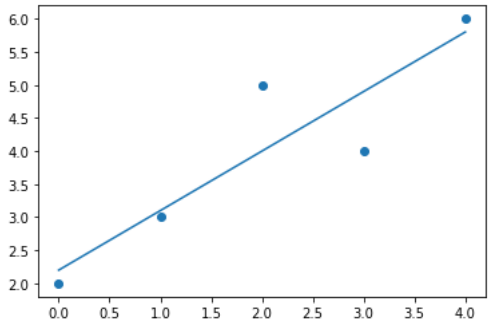
```
import matplotlib.pyplot as plt
```

```
x = [0,1,2,3,4]
y = [2,3,5,4,6]

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




```
from scipy import stats
slope, intercept, r, p, std_err = stats.linregress(x, y)
def reg(x):
  return slope * x + intercept
regmodel = list(map(reg, x))
plt.scatter(x, y)
plt.plot(x, regmodel)
plt.show()
```




```
prediction = reg(10)
print(prediction)
```

```
11.2
```

```
print(slope,intercept)
```

```
0.9 2.2
```