In [2]:

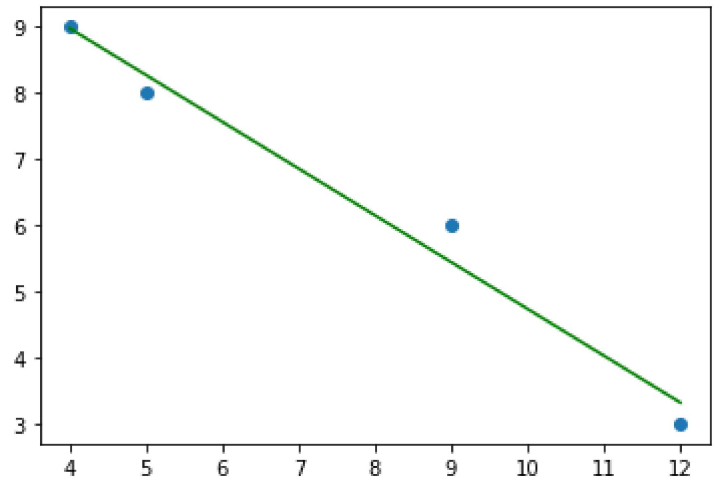
```
%matplotlib inline
import numpy as np
import matplotlib.pyplot as plt
x = np.array([4,5,9,12])
y = np.array([9,8,6,3])
```

In [3]:

```
plt.scatter(x,y)
plt.plot(x, 11.803-0.707* x, 'g')
```

Out[3]:

```
[<matplotlib.lines.Line2D at 0x2476e4591c0>]
```



In [1]:

```
from sklearn.linear_model import LinearRegression
```

In [4]:

```
regr = LinearRegression()
```

In [7]:

```
X = x.reshape(4,1)
```

In [9]:

```
regr.fit(X,y)
```

Out[9]:

```
LinearRegression()
```

In [10]:

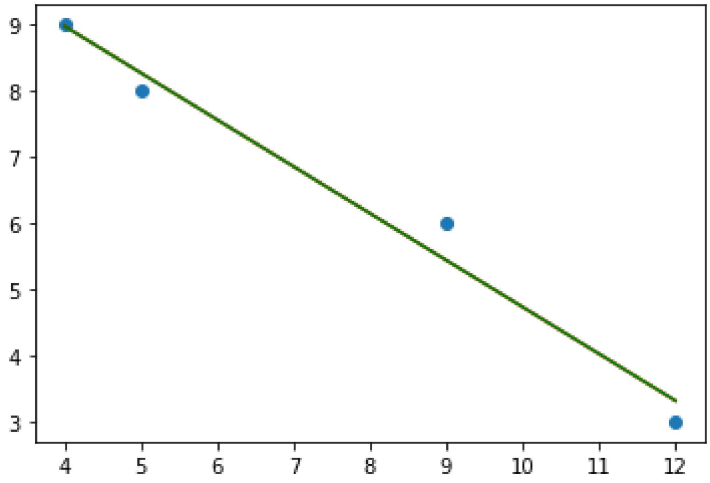
```
Y = regr.predict(X)
```

In [11]:

```
plt.scatter(x, y)
plt.plot(x, Y, 'r')
plt.plot(x, 11.803-0.707* x, 'g')
```

Out[11]:

```
[<matplotlib.lines.Line2D at 0x2476f492a30>]
```



In [ ]: