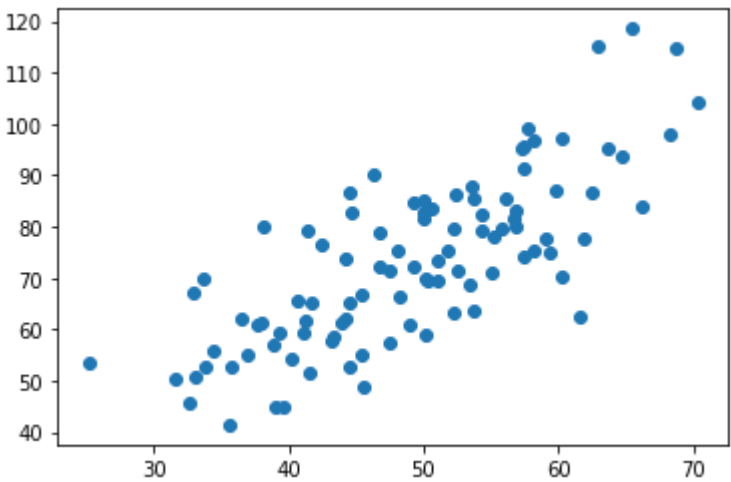


```
In [2]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
df = pd.read_csv("https://raw.githubusercontent.com/chasinginfinity/ml-from-scratch/master/02%20Linear%20Regression%20using%20Gradient%20Descent/data.csv")
print(df)
```

	32.502345269453031	31.70700584656992
0	53.426804	68.777596
1	61.530358	62.562382
2	47.475640	71.546632
3	59.813208	87.230925
4	55.142188	78.211518
...
94	50.030174	81.536991
95	49.239765	72.111832
96	50.039576	85.232007
97	48.149859	66.224958
98	25.128485	53.454394

[99 rows x 2 columns]

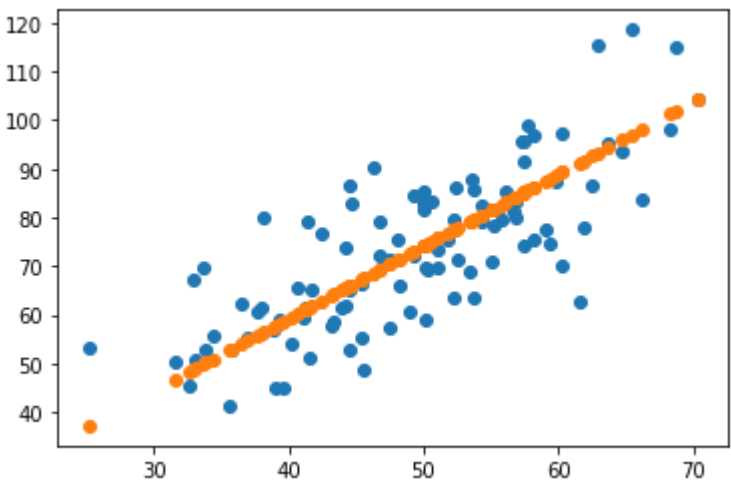
```
In [3]: x = df.iloc[:,0]
y = df.iloc[:,1]
plt.scatter(x,y)
plt.show()
```



```
In [8]: m= 0
c = 0
L = 0.0001
n = len(x)
for i in range(n):
    y_pred = m*x + c
    D_m = (-2/n)*sum(x*(y-y_pred))
    D_c = (-2/n)*sum(y-y_pred)
    m = m - L*D_m
    c = c - L*D_c
print(c,m)
```

0.0362353540942316 1.4809284677644328

```
In [9]: y_pred = m*x + c
plt.scatter(x,y)
plt.scatter(x,y_pred)
plt.show()
```



```
In [ ]:
```