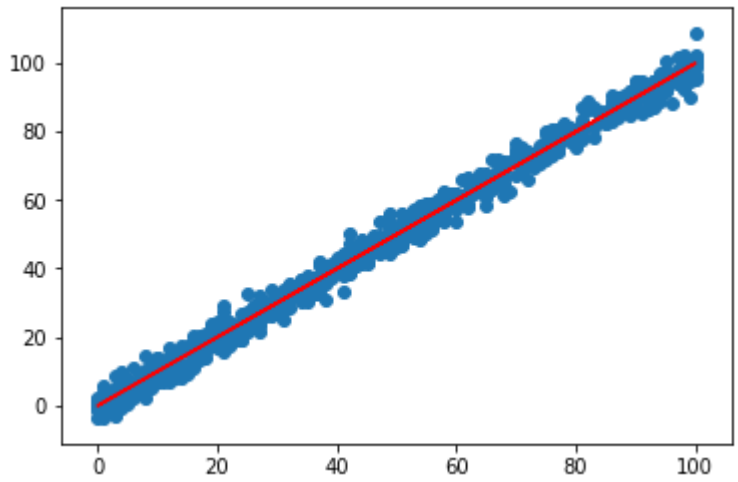
In [13]:
```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
datas=pd.read_csv('Downloads/train.csv').dropna()
xx=datas['x']
yy=datas['y']
x=np.array(xx)
y=np.array(yy)
x_bar=x.mean()
y_bar=y.mean()
xxyy=x*y
xy=np.array(xxyy)
xy_bar=xy.mean()
x_bar_square=x_bar**2
x_square=(x**2)
x_square_bar=x_square.mean()
m = ((x_bar*y_bar)-xy_bar)/(x_bar_square-x_square_bar)
c=y_bar-(m*x_bar)
print(m)
print(c)
l=len(x)
```

```
1.00065638186
-0.107265464301
```

In [19]:
```
yyy=[]
for i in range(l):
    yyy.append(m*x[i]+c)
y_y=np.array(yyy)

plt.plot(x,y_y,c='r')
plt.scatter(x,y)
plt.show()
```



In [ ]:
```

```