In [1]:
```
import pandas
```

In [2]:
```
from sklearn import linear_model
```

In [3]:
```
df = pandas.read_csv("data.csv")
```

In [4]:
```
df.head()
```

Out[4]:

	Car	Model	Volume	Weight	CO2
0	Toyoty	Aygo	1000	790	99
1	Mitsubishi	Space Star	1200	1160	95
2	Skoda	Citigo	1000	929	95
3	Fiat	500	900	865	90
4	Mini	Cooper	1500	1140	105

In [5]:
```
X = df[['Weight', 'Volume']]
```

In [6]:
```
y = df['CO2']
```

In [7]:
```
regr = linear_model.LinearRegression()
```

In [8]:
```
regr.fit(X, y)
```

Out[8]:
```
LinearRegression()
```

In [9]:
```
predictedCO2 = regr.predict([[2300, 1300]])
```

```
C:\Users\hp\anaconda3\lib\site-packages\sklearn\base.py:450: UserWarning: X does not have valid feature names,
but LinearRegression was fitted with feature names
  warnings.warn(
```

In [10]:
```
print(predictedCO2)
```

```
[107.2087328]
```

In [11]:
```
predictedCO2 = regr.predict([[3300, 1300]])
```

```
C:\Users\hp\anaconda3\lib\site-packages\sklearn\base.py:450: UserWarning: X does not have valid feature names,
but LinearRegression was fitted with feature names
  warnings.warn(
```

In [12]:
```
print(predictedCO2)
```

```
[114.75968007]
```

In [13]:
```
print(regr.coef_)            //107.2087328 + (1000 * 0.00755095) = 114.75968
```

```
[0.00755095 0.00780526]
```

In [ ]: