

```
In [3]: import pandas as pd
import numpy as np
from sklearn import linear_model
import matplotlib.pyplot as plt
```

```
In [4]: df=pd.read_csv("areaprice.csv")
```

```
In [5]: df
```

Out[5]:

	area	price
0	2600	550000
1	3000	565000
2	3200	610000
3	3600	680000
4	4000	725000

```
In [6]: newdf=df.drop('price',axis='columns')
newdf
```

Out[6]:

	area
0	2600
1	3000
2	3200
3	3600
4	4000

```
In [7]: price=df.price
price
```

Out[7]:

0	550000
1	565000
2	610000
3	680000
4	725000

Name: price, dtype: int64

```
In [8]: reg=linear_model.LinearRegression()
reg.fit(newdf,price)
```

Out[8]:

```
LinearRegression
LinearRegression()
```

```
In [9]: reg.predict([[3300]])
```

C:\Users\Hi\anaconda3\lib\site-packages\sklearn\base.py:420: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names  
warnings.warn(

```
Out[9]: array([628715.75342466])
```

```
In [10]: reg.coef_
```

```
Out[10]: array([135.78767123])
```

```
In [11]: reg.intercept_
```

```
Out[11]: 180616.43835616432
```

```
In [12]: reg.predict([[5000]])
```

C:\Users\Hi\anaconda3\lib\site-packages\sklearn\base.py:420: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names  
warnings.warn(

```
Out[12]: array([859554.79452055])
```

```
In [15]: areadf=pd.read_csv("area.csv")
areadf
```

```
Out[15]:
```

	area
0	2800
1	3100
2	3600
3	4500
4	5900
5	1000
6	10000
7	15000
8	900

```
#p=reg.predict('areadf')
```

```
In [19]: p=reg.predict(areadf)
```

In [20]:

p

Out[20]: array([ 560821.91780822, 601558.21917808, 669452.05479452,  
 791660.95890411, 981763.69863014, 316404.10958904,  
 1538493.15068493, 2217431.50684932, 302825.34246575])

In [21]: areadf["prices"]=p  
areadf

Out[21]:

	area	prices
0	2800	5.608219e+05
1	3100	6.015582e+05
2	3600	6.694521e+05
3	4500	7.916610e+05
4	5900	9.817637e+05
5	1000	3.164041e+05
6	10000	1.538493e+06
7	15000	2.217432e+06
8	900	3.028253e+05

In [ ]: