

```
In [1]: import pandas as pd
import numpy as np
from sklearn import linear_model
import matplotlib.pyplot as plt
```

```
In [27]: df = pd.read_csv('C:/Users/aziz/Desktop/Downloads/Machine Learning Python/1_Linear Regression/1_Linear Regression Data.csv')
df
```

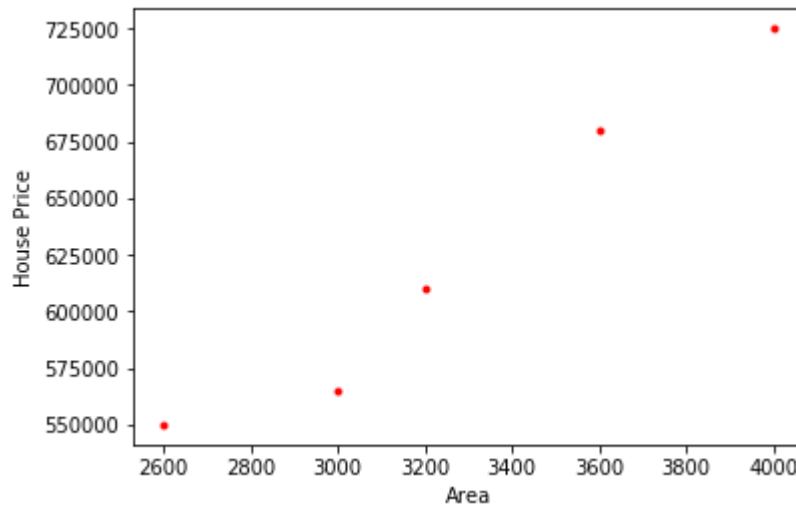
Out[27]:

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

## %matplotlib inline

```
In [10]: plt.xlabel('Area')
plt.ylabel('House Price')
plt.scatter(df.area,df.price,color='red',marker='.')
```

Out[10]: <matplotlib.collections.PathCollection at 0x1bc2510be10>



```
In [11]: new_df = df.drop('price',axis='columns')
new_df
```

```
Out[11]:
```

	area
0	2600
1	3000
2	3200
3	3600
4	4000

```
In [14]: price = df.price
price
```

```
Out[14]: 0    550000
1    565000
2    610000
3    680000
4    725000
Name: price, dtype: int64
```

```
In [15]: # Create linear regression object
reg = linear_model.LinearRegression()
reg.fit(new_df,price)
```

```
Out[15]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None,
normalize=False)
```

```
In [19]: reg.predict([[3000]])
```

```
Out[19]: array([587979.45205479])
```

```
In [ ]:
```