```python
import pandas as pd
from sklearn.linear_model import LinearRegression
import matplotlib.pyplot as plt
```

```python
from google.colab import files
uploaded = files.upload()
```

> Choose Files dataset.csv
> • **dataset.csv**(text/csv) - 277 bytes, last modified: 3/25/2023 - 100% done
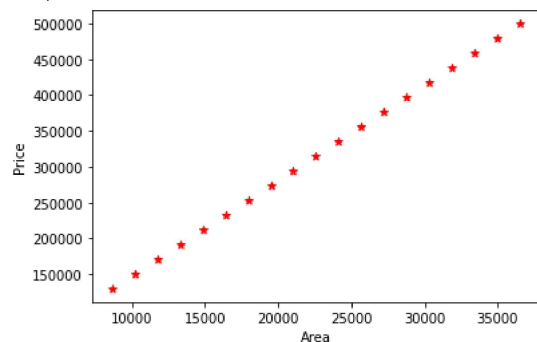>   Saving dataset.csv to dataset.csv

```python
dataset = pd.read_csv('dataset.csv')
```

```python
print(dataset.shape)
print(dataset.head(5))
```

```
(19, 2)
    area   price
0   8678  130030
1  10222  150550
2  11766  171070
3  13310  191590
4  14854  212110
```

```python
plt.xlabel('Area')
plt.ylabel('Price')
plt.scatter(dataset.area,dataset.price,color='red',marker='*')
```

```
<matplotlib.collections.PathCollection at 0x7f70c80acd30>
```



```python
X = dataset.drop('price',axis='columns')
X
```

	area	
0	8678	
1	10222	
2	11766	

```
Y = dataset.price
Y
```

```
0      130030
1      150550
2      171070
3      191590
4      212110
5      232630
6      253150
7      273670
8      294190
9      314710
10     335230
11     355750
12     376270
13     396790
14     417310
15     437830
16     458350
17     478870
18     499390
Name: price, dtype: int64
```

```
model = LinearRegression()
model.fit(X,Y)
```

```
▾ LinearRegression
LinearRegression()
```

```
x=8450
LandAreainSqFt=[[x]]
PredictedmodelResult = model.predict(LandAreainSqFt)
print(PredictedmodelResult)
```

```
[126999.84455959]
/usr/local/lib/python3.9/dist-packages/sklearn/base.py:439: UserWarning: X does not have valid feature names, but LinearRegression was f
  warnings.warn(
```

```
m=model.coef_
print(m)
```

```
[13.29015544]
```

```
b=model.intercept_
print(b)
```

```
14698.031088082877
```

```
y = m*x + b
print("The Price of {0} Square feet Land is: {1}".format(x,y[0]))
```

```
The Price of 8450 Square feet Land is: 126999.84455958547
```

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