

```
In [1]: import pandas as pd
from sklearn import linear_model
import matplotlib.pyplot as plt
url="https://raw.githubusercontent.com/apratim777/apratim777/master/homeprices
2.csv"
df=pd.read_csv(url)
print(df.head())
```

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

```
In [4]: replace_map={'town':{'monroe township':1,'west windsor':2,'robinsville':3}}
df.replace(replace_map,inplace=True)
df=df.sample(frac=1)
print(df.head())
```

	town	area	price
4	1	4000	725000
10	3	2900	600000
9	3	2600	575000
6	2	2800	615000
1	1	3000	565000

```
In [5]: x=df[['town','area']].values
y=df[['price']].values
print(x.shape)
print(y.shape)
```

```
(13, 2)
(13, 1)
```

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In [6]: reg=linear_model.LinearRegression()
reg.fit(x,y)
acc=reg.score(x,y)
print(acc)
```

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0.9067640212781204
```

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In [8]: pre=reg.predict([[2,3300]])
print(pre)
```

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[[649345.32770332]]
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