In [55]:
```
import pandas as pd
import numpy as np
from sklearn import linear_model
```

In [53]:
```
df = pd.read_csv("C:/Users/prasa/Desktop/py codes/ds projects/ML/4 Save
 Model Using Joblib And Pickle/homeprices.csv")
df.head()
```

Out[53]:

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

In [56]:
```
model = linear_model.LinearRegression()
model.fit(df[['area']],df.price)
```

Out[56]:
```
LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normaliz
e=False)
```

In [57]:
```
model.coef_
```

Out[57]:
```
array([135.78767123])
```

In [58]:
```
model.intercept_
```

Out[58]:
```
180616.43835616432
```

In [59]:
```
model.predict([[5000]])
```

Out[59]:
```
array([859554.79452055])
```

In [60]:
```
import pickle
```

In [30]:
```
with open ('model_pickle','wb') as f:
    pickle.dump(model,f)
```

In [64]:
```
with open('C:/Users/prasa/Desktop/py codes/ds projects/ML/4 Save Model
 Using Joblib And Pickle/model_pickle','rb') as f:
    mp = pickle.load(f)
```

In [65]:
```
mp.predict([[5000]])
```

Out[65]:
```
array([859554.79452055])
```

In [67]:
```
from sklearn.externals import joblib
```

In [68]:
```
joblib.dump(model,'model_joblib')
```

Out[68]:
```
['model_joblib']
```

In [70]:
```
mj = joblib.load('C:/Users/prasa/Desktop/py codes/ds projects/ML/4 Save
 Model Using Joblib And Pickle/model_joblib')
mj
```

Out[70]:
```
LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normaliz
e=False)
```

In [72]:
```
model.predict([[5000]])
```

Out[72]:
```
array([859554.79452055])
```