

```
In [6]: import pandas as pd
        from sklearn import linear_model

In [7]: df=pd.read_csv("homeprices.csv")

In [8]: df

Out[8]:
```

	area	bedrooms	age	price
0	2600	3.0	20	550000
1	3000	4.0	15	565000
2	3200	NaN	18	610000
3	3600	3.0	30	595000
4	4000	5.0	8	760000
5	4100	6.0	8	810000

```


In [9]: df.bedrooms.fillna(df.bedrooms.median(),inplace=True)

In [10]: df

Out[10]:
```

	area	bedrooms	age	price
0	2600	3.0	20	550000
1	3000	4.0	15	565000
2	3200	4.0	18	610000
3	3600	3.0	30	595000
4	4000	5.0	8	760000
5	4100	6.0	8	810000

```


In [12]: reg=linear_model.LinearRegression()

In [13]: reg.fit(df[['area', 'bedrooms', 'age']],df.price)

Out[13]:
```

▼ LinearRegression

LinearRegression()

```


In [14]: reg.predict([[2300,4,10]])

C:\Users\Asus\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\base.py:464: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
  warnings.warn(

Out[14]: array([540304.95955774])

In [15]: import pickle

In [16]: f=open('trainedmodel','wb')

In [17]: pickle.dump(reg,f)

In [23]: # here i learn how to save the train model
        # this train model we can use later without training it again
        # we can share this as well.

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NameError                                Traceback (most recent call last)
Cell In[23], line 1
----> 1 joblib.dump(reg,"secondtrain")
```

**NameError:** name 'joblib' is not defined

In [ ]: