

```
import tensorflow as tf
import pandas as pd
import numpy as np
```

```
data_csv = pd.read_csv('data.csv')
```

```
print(data_csv)
```

	date	price	bedrooms	bathrooms	sqft_living \
0	2014-05-02 00:00:00	3.130000e+05	3.0	1.50	1340
1	2014-05-02 00:00:00	2.384000e+06	5.0	2.50	3650
2	2014-05-02 00:00:00	3.420000e+05	3.0	2.00	1930
3	2014-05-02 00:00:00	4.200000e+05	3.0	2.25	2000
4	2014-05-02 00:00:00	5.500000e+05	4.0	2.50	1940
...
4595	2014-07-09 00:00:00	3.081667e+05	3.0	1.75	1510
4596	2014-07-09 00:00:00	5.343333e+05	3.0	2.50	1460
4597	2014-07-09 00:00:00	4.169042e+05	3.0	2.50	3010
4598	2014-07-10 00:00:00	2.034000e+05	4.0	2.00	2090
4599	2014-07-10 00:00:00	2.206000e+05	3.0	2.50	1490

	sqft_lot	floors	waterfront	view	condition	sqft_above \
0	7912	1.5	0	0	3	1340
1	9050	2.0	0	4	5	3370
2	11947	1.0	0	0	4	1930
3	8030	1.0	0	0	4	1000
4	10500	1.0	0	0	4	1140
...
4595	6360	1.0	0	0	4	1510
4596	7573	2.0	0	0	3	1460
4597	7014	2.0	0	0	3	3010
4598	6630	1.0	0	0	3	1070
4599	8102	2.0	0	0	4	1490

	sqft_basement	yr_built	yr_renovated	street \
0	0	1955	2005	18810 Densmore Ave N
1	280	1921	0	709 W Blaine St
2	0	1966	0	26206-26214 143rd Ave SE
3	1000	1963	0	857 170th Pl NE
4	800	1976	1992	9105 170th Ave NE
...
4595	0	1954	1979	501 N 143rd St
4596	0	1983	2009	14855 SE 10th Pl
4597	0	2009	0	759 Ilwaco Pl NE
4598	1020	1974	0	5148 S Creston St
4599	0	1990	0	18717 SE 258th St

	city	statezip	country
0	Shoreline	WA 98133	USA
1	Seattle	WA 98119	USA
2	Kent	WA 98042	USA
3	Bellevue	WA 98008	USA

4	Redmond	WA	98052	USA
...
4595	Seattle	WA	98133	USA
4596	Bellevue	WA	98007	USA
4597	Renton	WA	98059	USA
4598	Seattle	WA	98178	USA
4599	Covington	WA	98042	USA

[4600 rows x 18 columns]

```
bedrooms = data_csv["bedrooms"]
bathrooms = data_csv["bathrooms"]
luas = data_csv['sqft_living']
floor = data_csv['floors']
prices = data_csv['price']
```

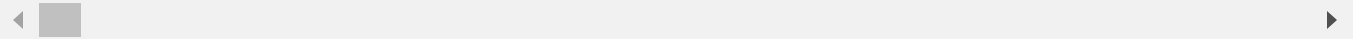
```
rumah_all = []
```

```
for index in range(len(bedrooms)):
    rumah = []
    rumah.append(bedrooms[index])
    rumah.append(bathrooms[index])
    rumah.append(luas[index])
    rumah.append(floor[index])
```

```
rumah_all.append(rumah)
```

```
print(rumah_all)
rumah_all = np.array(rumah_all)
prices = np.array(prices)
```

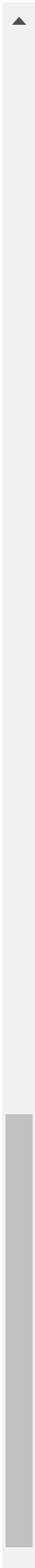
```
[[3.0, 1.5, 1340, 1.5], [5.0, 2.5, 3650, 2.0], [3.0, 2.0, 1930, 1.0], [3.0, 2.25, 2000,
```



```
model = tf.keras.models.Sequential([
    tf.keras.layers.Dense(units = 1, input_shape = [4])
])
```

```
model.compile(
    loss='mae',
    optimizer='sgd',
    metrics=['accuracy']
)
```

```
model.fit(
    rumah_all, prices, epochs=100
)
```



144/144 [=====] - 0s 2ms/step - loss: 183536.4531 - accuracy ▲

```
kamar_tidur = int(input("Masukan jumlah kamar tidur yang anda inginkan : "))
kamar_mandi = int(input("berapa banyak kamar mandi yang anda idam idamkan : "))
luas_rumah = int(input("anda mau rumah seluas apa? "))
jumlah_lantai = int(input("anda ingin punya rumah berapa lantai ? "))
```

```
➞ Masukan jumlah kamar tidur yang anda inginkan : 5
    berapa banyak kamar mandi yang anda idam idamkan : 3
    anda mau rumah seluas apa? 500
    anda ingin punya rumah berapa lantai ? 3
```

```
model.predict
prediksi_harga = model.predict([[kamar_tidur, kamar_mandi, luas_rumah, jumlah_lantai]])
print("Rumah impian anda , kira kira harganya {} USD".format(prediksi_harga[0][0]))
```

```
1/1 [=====] - 0s 57ms/step
Rumah impian anda , kira kira harganya 119161.421875 USD
```

Tidak dapat terhubung ke layanan reCAPTCHA. Periksa koneksi internet Anda, lalu muat ulang untuk mendapatkan tantangan reCAPTCHA.