```
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
```