```
import numpy as np
           import pandas as pd
           import matplotlib.pyplot as plt
In [10]:
           data = pd.read_csv("veriler.csv")
          Y = data["boy"].values
          X1 = data["kilo"].values
          X2 = data["yas"].values
          X3 = data["cinsiyet"].values
          data
Out[10]:
              boy
                  kilo yas cinsiyet
           0 130
                    30
                        10
                                 1
           1 125
                    36
                        11
                                 1
           2 135
                    34
                        10
                                 0
           3 133
                                 0
                    30
                         9
                                 1
           4 129
                    38
                        12
                        30
           5 180
                    90
                                 1
                                 1
           6 190
                    80
                        25
           7 175
                    90
                        35
                                 1
           8 177
                                 0
                    60
                        22
           9 185
                   105
                        33
                                 1
          10 165
                    55
                        27
                                 0
          11 155
                        44
                                 0
                    50
          12 160
                                 0
                    58
                        39
          13 162
                    59
                        41
                                 0
          14 167
                                 0
                    62
                        55
          15 174
                    70
                        47
                                 1
          16 193
                                 1
                    90
                        23
          17 187
                    80
                        27
                                 1
          18 183
                                 1
                    88
                        28
          19 159
                    40
                        29
                                 0
In [15]:
          X_123 = data.drop("boy",axis=1)
          X 123
              kilo yas cinsiyet
```

In [7]:

Out[15]:

	kilo	yas	cinsiyet
5	90	30	1
6	80	25	1
7	90	35	1
8	60	22	0
9	105	33	1
10	55	27	0
11	50	44	0
12	58	39	0
13	59	41	0
14	62	55	0
15	70	47	1
16	90	23	1
17	80	27	1
18	88	28	1
19	40	29	0

from sklearn.model\_selection import train\_test\_split
x\_train, x\_test, y\_train, y\_test = train\_test\_split(X\_123,Y,test\_size=0.2)

In [25]: x\_train

Out[25]: kilo yas cinsiyet

2	34	10	0
3	30	9	0
10	55	27	0
18	88	28	1
13	59	41	0
11	50	44	0
8	60	22	0
7	90	35	1
14	62	55	0
5	90	30	1
1	36	11	1
16	90	23	1
19	40	29	0
12	58	39	0
9	105	33	1
17	80	27	1

```
In [26]:
          x_test
Out[26]:
             kilo
                  yas cinsiyet
                            1
              30
                   10
               80
                   25
                            1
           6
                            1
           4
               38
                   12
          15
               70
                   47
                            1
In [27]:
          y_train
Out[27]: array([135, 133, 165, 183, 162, 155, 177, 175, 167, 180, 125, 193, 159,
                 160, 185, 187], dtype=int64)
In [28]:
          y test
Out[28]: array([130, 190, 129, 174], dtype=int64)
In [29]:
          from sklearn.linear_model import LinearRegression
          regressor = LinearRegression()
          regressor.fit(x_train,y_train)
Out[29]: LinearRegression()
In [41]:
          tahmin = regressor.predict(x_test)
          tahmin_serisi = pd.Series(tahmin)
          tahmin_serisi
Out[41]: 0
               122.304528
               172.799566
         1
               130.433580
         2
               159.585177
         dtype: float64
In [46]:
          y_test_serisi = pd.Series(y_test)
          total_data = dict(boy=y_test_serisi, tahmin=tahmin_serisi)
          comparison_df = pd.DataFrame(total_data)
          comparison_df
Out[46]:
            boy
                    tahmin
          0 130 122.304528
            190 172.799566
          2
            129
                130.433580
            174 159.585177
 In [ ]:
```