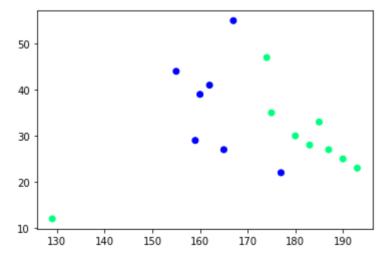
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

data = pd.read_csv("veriler.csv")
Y = data["cinsiyet"].values
X1 = data["boy"].values
X2 = data["yas"].values
data
```

Out[89]:		boy	yas	cinsiyet
	0	129	12	1
	1	180	30	1
	2	190	25	1
	3	175	35	1
	4	177	22	0
	5	185	33	1
	6	165	27	0
	7	155	44	0
	8	160	39	0
	9	162	41	0
	10	167	55	0
	11	174	47	1
	12	193	23	1
	13	187	27	1
	14	183	28	1
	15	159	29	0

```
In [90]: plt.scatter(X1,X2,c=Y, cmap='winter')
```

Out[90]: <matplotlib.collections.PathCollection at 0x251469b77f0>



```
In [91]:
    X_12 = data.drop("cinsiyet",axis=1)
    X_12
```

```
Out[91]:
             boy yas
             129
                   12
             180
                   30
           2
              190
                   25
              175
                   35
              177
                   22
              185
                   33
              165
                   27
              155
                   44
              160
                   39
              162
                   41
          10
              167
                   55
              174
          11
                   47
              193
                   23
              187
          13
                   27
              183
                   28
          15
            159
                   29
In [92]:
          from sklearn.model selection import train test split
          x_train, x_test, y_train, y_test = train_test_split(X_12,Y,test_size=0.2)
In [93]:
          from sklearn.svm import SVC # Support Vector Classifier
          svc_model1 = SVC(kernel="linear",C=1.0) #C margin katsayısı, C ne kadar büyükse Margin o kadar
          svc_model1.fit(x_train,y_train)
Out[93]: SVC(kernel='linear')
In [94]:
          classes predicted1 = svc model1.predict(x test)
          classes_predicted1
Out[94]: array([1, 1, 0, 1], dtype=int64)
In [95]:
          svc_model2 = SVC(kernel="poly",C=1.0)
          svc_model2.fit(x_train,y_train)
          classes_predicted2 = svc_model2.predict(x_test)
          classes predicted2
Out[95]: array([1, 1, 0, 1], dtype=int64)
In [96]:
          svc_model3 = SVC(kernel="rbf",C=1.0) # radial bases
          svc_model3.fit(x_train,y_train)
          classes_predicted3 = svc_model3.predict(x_test)
          classes_predicted3
```

Out[96]: array([1, 1, 0, 1], dtype=int64)

```
In [97]:
          svc_model4 = SVC(kernel="sigmoid",C=1.0)
          svc_model4.fit(x_train,y_train)
          classes_predicted4 = svc_model4.predict(x_test)
          classes_predicted4
Out[97]: array([0, 0, 0, 0], dtype=int64)
In [98]:
          y_test
Out[98]: array([1, 1, 0, 1], dtype=int64)
In [99]:
          from sklearn.metrics import confusion matrix
          result_linear = confusion_matrix(y_test,classes_predicted1)
          result_linear
Out[99]: array([[1, 0],
                [0, 3]], dtype=int64)
In [ ]:
```