

In [14]:

```
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["kilo"].values
X2 = data["yas"].values
X3 = data["boy"].values
data
```

Out[14]:

	boy	kilo	yas	cinsiyet
0	130	30	10	1
1	125	36	11	1
2	135	34	10	0
3	133	30	9	0
4	129	38	12	1
5	180	90	30	1
6	190	80	25	1
7	175	90	35	1
8	177	60	22	0
9	185	105	33	1
10	165	55	27	0
11	155	50	44	0
12	160	58	39	0
13	162	59	41	0
14	167	62	55	0
15	174	70	47	1
16	193	90	23	1
17	187	80	27	1
18	183	88	28	1
19	159	40	29	0

In [15]:

```
X_123 = data.drop("cinsiyet",axis=1)
```

In [16]:

```
from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(X_123,Y,test_size=0.3)
```

In [17]:

```
from sklearn.ensemble import RandomForestClassifier
rf_classifier = RandomForestClassifier(n_estimators=10,criterion="entropy") # 10 tane karar ağacı
rf_classifier.fit(x_train,y_train)
```

Out[17]: RandomForestClassifier(criterion='entropy', n\_estimators=10)

```
In [18]: y_pred = rf_classifier.predict(x_test)
         y_pred
```

```
Out[18]: array([1, 0, 0, 1, 0, 1], dtype=int64)
```

```
In [19]: y_test
```

```
Out[19]: array([1, 0, 0, 1, 0, 0], dtype=int64)
```

```
In [20]: from sklearn.metrics import confusion_matrix
         result_matrix = confusion_matrix(y_test,y_pred)
         result_matrix
```

```
Out[20]: array([[3, 1],
               [0, 2]], dtype=int64)
```

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In [ ]:
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