

In [1]:

```
import pandas as pd

tenis = pd.read_excel("tenis.xlsx")
tenis
```

Out[1]:

	No	Outlook	Temperature	Humidity	Windy	Decision
0	1	Sunny	Hot	High	False	No
1	2	Sunny	Hot	High	True	No
2	3	Cloudy	Hot	High	False	Yes
3	4	Rainy	Mild	High	False	Yes
4	5	Rainy	Cool	Normal	False	Yes
5	6	Rainy	Cool	Normal	True	Yes
6	7	Cloudy	Cool	Normal	True	Yes
7	8	Sunny	Mild	High	False	No
8	9	Sunny	Cool	Normal	False	Yes
9	10	Rainy	Mild	Normal	False	Yes
10	11	Sunny	Mild	Normal	True	Yes
11	12	Cloudy	Mild	High	True	Yes
12	13	Cloudy	Hot	Normal	False	Yes
13	14	Rainy	Mild	High	True	No

In [2]:

```
from sklearn.preprocessing import LabelEncoder

le = LabelEncoder()
tenis['Outlook'] = le.fit_transform(tenis['Outlook'])
tenis['Temperature'] = le.fit_transform(tenis['Temperature'])
tenis['Humidity'] = le.fit_transform(tenis['Humidity'])
tenis['Windy'] = le.fit_transform(tenis['Windy'])
print(tenis)
```

	No	Outlook	Temperature	Humidity	Windy	Decision
0	1	2	1	0	0	No
1	2	2	1	0	1	No
2	3	0	1	0	0	Yes
3	4	1	2	0	0	Yes
4	5	1	0	1	0	Yes
5	6	1	0	1	1	Yes
6	7	0	0	1	1	Yes
7	8	2	2	0	0	No
8	9	2	0	1	0	Yes
9	10	1	2	1	0	Yes
10	11	2	2	1	1	Yes
11	12	0	2	0	1	Yes
12	13	0	1	1	0	Yes
13	14	1	2	0	1	No

In [3]:

```
# independent
x = tenis.drop(["Decision"], axis = 1)

# dependen
y = tenis["Decision"]
```

In [4]:

```
from sklearn.model_selection import train_test_split

x_train, x_test, y_train, y_test = train_test_split(x, y, test_size = 0.2, random_state = 0)
```

In [5]:

```
from sklearn.naive_bayes import GaussianNB

# fungsi klasifikasi naive bayes
modelnb = GaussianNB()

# memasukkan data training pada fungsi klasifikasi naive bayes
nbtrain = modelnb.fit(x_train, y_train)
```

In [6]:

```
y_pred = nbtrain.predict(x_test)
y_pred
```

Out[6]:

```
array(['Yes', 'Yes', 'Yes'], dtype='<U3')
```

In [7]:

```
from sklearn.metrics import accuracy_score
accuracy = accuracy_score(y_test, y_pred)
accuracy
```

Out[7]:

```
1.0
```