```
In [2]: import numpy as np
   import pandas as pd
   import seaborn as sns
   from sklearn.model_selection import train_test_split
   from sklearn.tree import DecisionTreeClassifier
   df=pd.read_csv(r"C:\Users\DELL\Downloads\drug200.csv")
   df
```

Out[2]:

	Age	Sex	ВР	Cholesterol	Na_to_K	Drug
0	23	F	HIGH	HIGH	25.355	drugY
1	47	М	LOW	HIGH	13.093	drugC
2	47	М	LOW	HIGH	10.114	drugC
3	28	F	NORMAL	HIGH	7.798	drugX
4	61	F	LOW	HIGH	18.043	drugY
195	56	F	LOW	HIGH	11.567	drugC
196	16	М	LOW	HIGH	12.006	drugC
197	52	М	NORMAL	HIGH	9.894	drugX
198	23	М	NORMAL	NORMAL	14.020	drugX
199	40	F	LOW	NORMAL	11.349	drugX

200 rows × 6 columns

In [3]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 200 entries, 0 to 199
Data columns (total 6 columns):

#	Column	Non-Null Count	Dtype		
0	Age	200 non-null	int64		
1	Sex	200 non-null	object		
2	BP	200 non-null	object		
3	Cholesterol	200 non-null	object		
4	Na_to_K	200 non-null	float64		
5	Drug	200 non-null	object		
dtypes: float64(1), int64(1), object(4)					

memory usage: 9.5+ KB

In [4]: |df['BP'].value_counts()

Out[4]: BP

HIGH 77 LOW 64 NORMAL 59

Name: count, dtype: int64

```
In [5]: df['Cholesterol'].value_counts()
```

Out[5]: Cholesterol

HIGH 103 NORMAL 97

Name: count, dtype: int64

```
In [6]: convert={"BP":{"LOW":1,"NORMAL":2,"HIGH":3}}
    df=df.replace(convert)
    df
```

Out[6]:

	Age	Sex	BP	Cholesterol	Na_to_K	Drug
0	23	F	3	HIGH	25.355	drugY
1	47	М	1	HIGH	13.093	drugC
2	47	М	1	HIGH	10.114	drugC
3	28	F	2	HIGH	7.798	drugX
4	61	F	1	HIGH	18.043	drugY
195	56	F	1	HIGH	11.567	drugC
196	16	М	1	HIGH	12.006	drugC
197	52	М	2	HIGH	9.894	drugX
198	23	М	2	NORMAL	14.020	drugX
199	40	F	1	NORMAL	11.349	drugX

200 rows × 6 columns

```
In [7]: convert={"Drug":{"drugX":1,"drugY":2,"drugA":3,"drugB":4,"drugC":5}}
    df=df.replace(convert)
    df
```

Out[7]:

	Age	Sex	BP	Cholesterol	Na_to_K	Drug
0	23	F	3	HIGH	25.355	2
1	47	М	1	HIGH	13.093	5
2	47	М	1	HIGH	10.114	5
3	28	F	2	HIGH	7.798	1
4	61	F	1	HIGH	18.043	2
195	56	F	1	HIGH	11.567	5
196	16	М	1	HIGH	12.006	5
197	52	М	2	HIGH	9.894	1
198	23	М	2	NORMAL	14.020	1
199	40	F	1	NORMAL	11.349	1

200 rows × 6 columns