```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import tensorflow
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Layer, Dense, Dropout

data=pd.read_csv("/content/drug200.csv")
data.head()
```

	Age	Sex	ВР	Cholesterol	Na_to_K	Drug	1
0	23	F	H I GH	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	

data.isnull().sum()

```
Age 0
Sex 0
BP 0
Cholesterol 0
Na_to_K 0
Drug 0
dtype: int64
```

#splitting the data values as x and y
x=data.iloc[:,0:-1]
y=data.iloc[:,-1]

x.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 200 entries, 0 to 199
Data columns (total 5 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
dtyp	es: float64(1), int64(1), obj	ect(3)
memo	ry usage: 7.9	+ KB	

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	Age	Sex	ВР	Cholesterol	Na_to_K	1
0	23	F	HIGH	H I GH	25.355	
1	17	N/I	1 01/1/	ПСП	13 003	

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	Age	Sex	ВР	Cholesterol	Na_to_K
0	23	F	HIGH	H I GH	25,355
1	47	М	LOW	H i GH	13.093
2	47	М	LOW	H I GH	10.114
3	28	F	NORMAL	H I GH	7.798
4	61	F	LOW	H I GH	18.043
195	56	F	LOW	H I GH	11.567
196	16	М	LOW	HIGH	12.006
197	52	М	NORMAL	H I GH	9.894
198	23	М	NORMAL	NORMAL	14.020
199	40	F	LOW	NORMAL	11.349

200 rows × 5 columns

#Univariate analysis-Extracting info from a single column
#checking datdistplot(df['Age'])

#creating dummy dataframe for categorial values

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