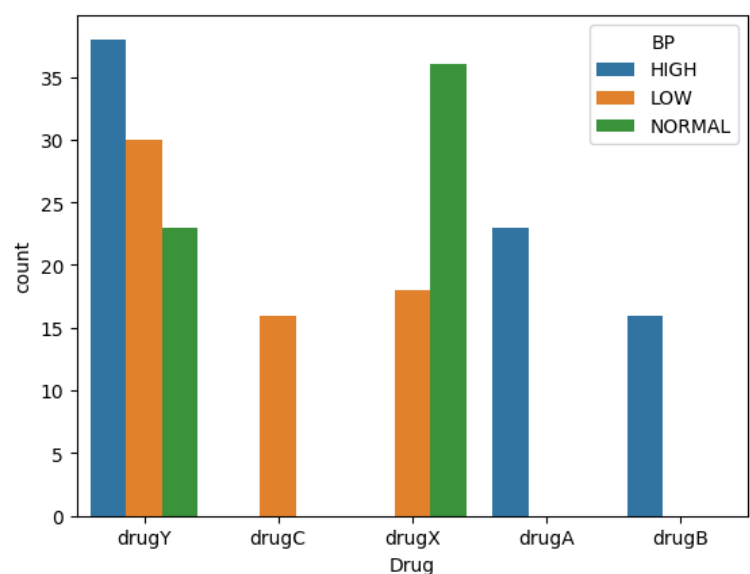


	Drug	Sex	count
0	drugA	F	9
1	drugA	M	14
2	drugB	F	6
3	drugB	M	10
4	drugC	F	7
5	drugC	M	9
6	drugX	F	27
7	drugX	M	27
8	drugY	F	47
9	drugY	M	44

	Drug	BP	count
0	drugA	HIGH	23
1	drugB	HIGH	16
2	drugC	LOW	16
3	drugX	LOW	18
4	drugX	NORMAL	36
5	drugY	HIGH	38
6	drugY	LOW	30
7	drugY	NORMAL	23



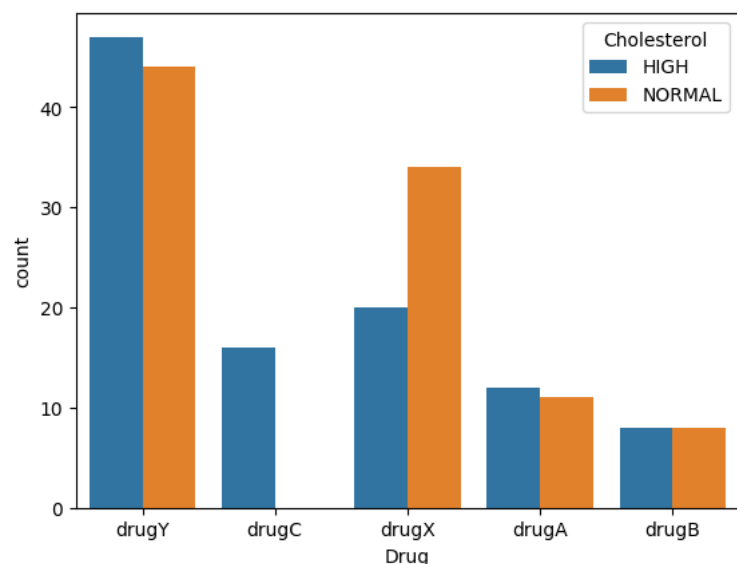
	Age	Sex	BP	Cholesterol	Na_to_K	Drug
0	23	0	HIGH	1	25.355	1
1	47	1	LOW	1	13.093	2
2	47	1	LOW	1	10.114	2
3	28	0	NORMAL	1	7.798	3
4	61	0	LOW	1	18.043	1

	Drug	Cholesterol	count
0	drugA	HIGH	12
1	drugA	NORMAL	11
2	drugB	HIGH	8
3	drugB	NORMAL	8
4	drugC	HIGH	16
5	drugX	HIGH	20
6	drugX	NORMAL	34
7	drugY	HIGH	47
8	drugY	NORMAL	44

(200, 6)

(200, 8)

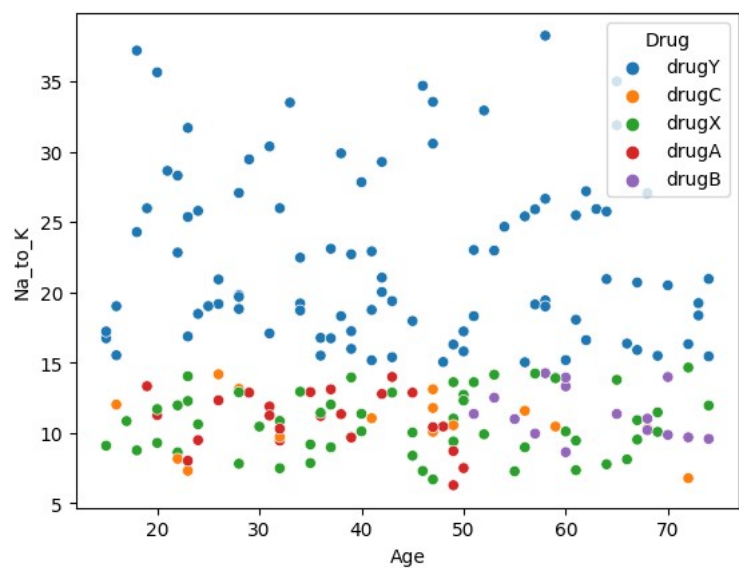
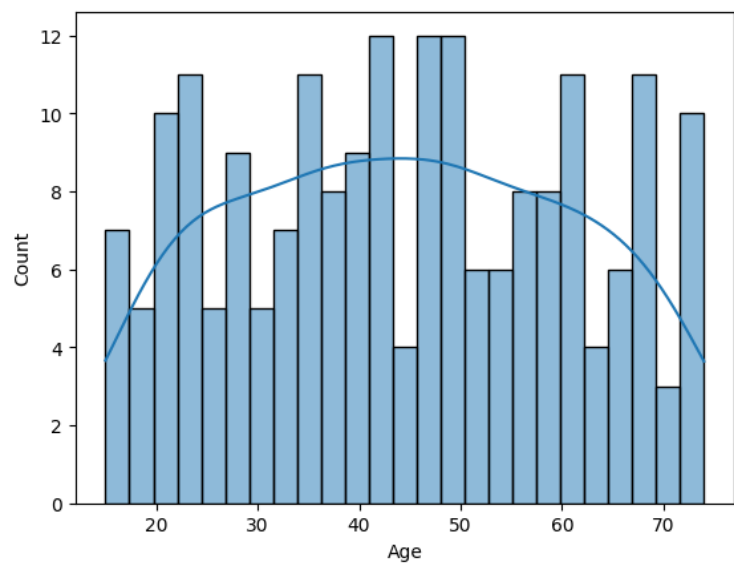
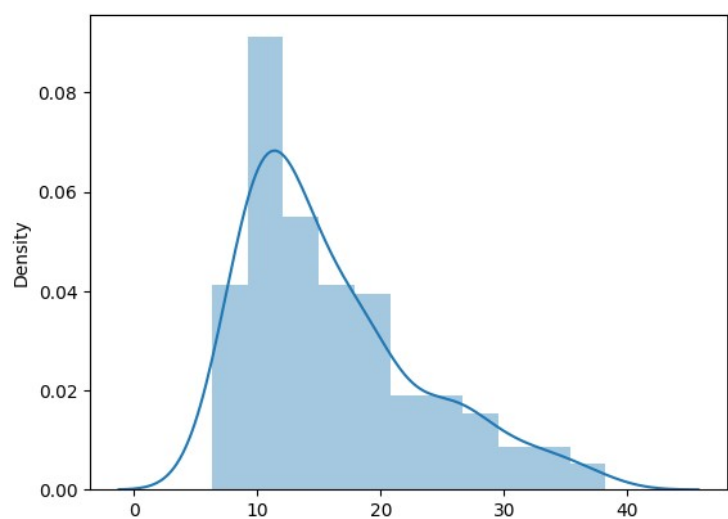
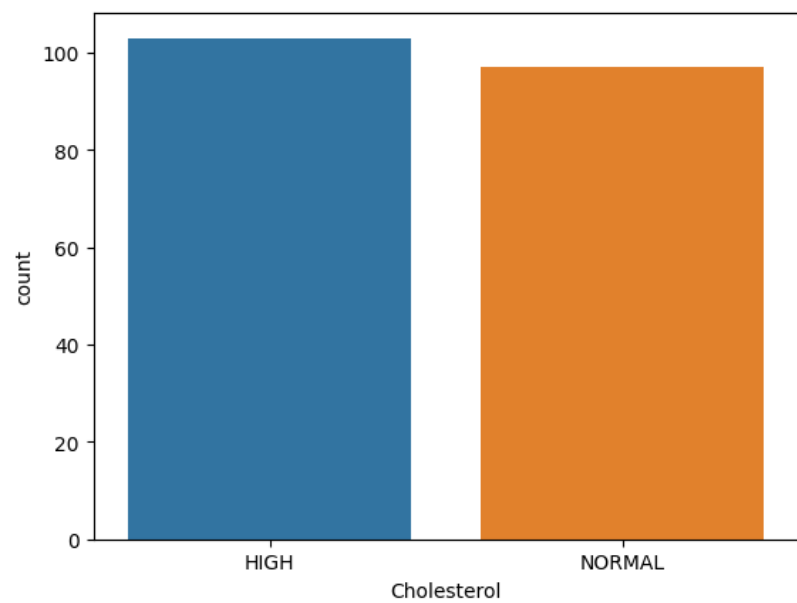
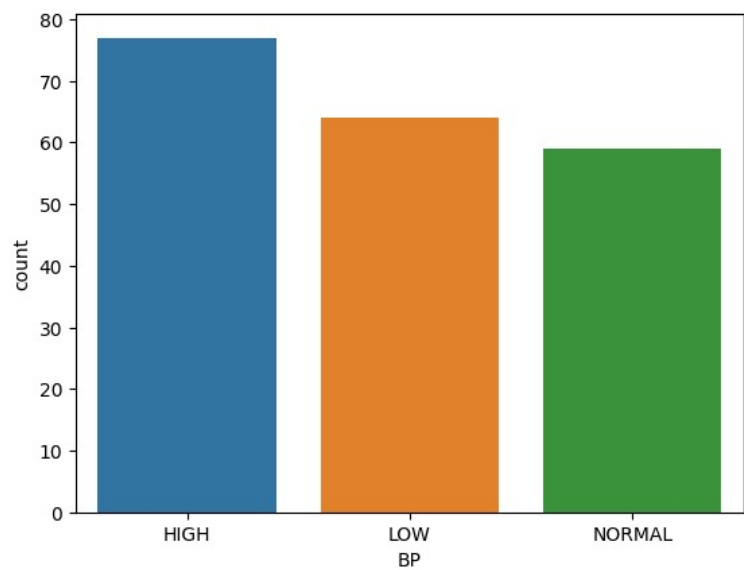
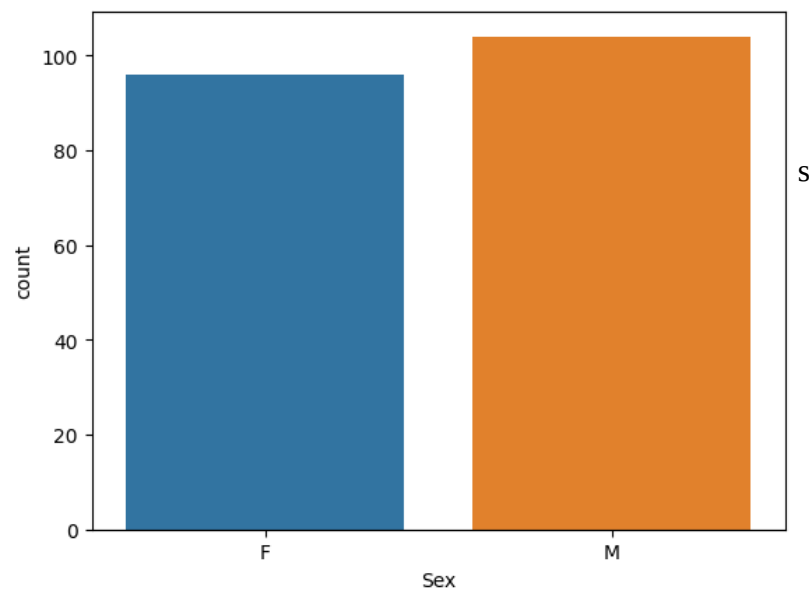
x train shape (160, 7)  
x test shape (40, 7)  
y train shape (160, 1)  
y test shape (40, 1)



Training score data:  
0.75

	Age	Sex	Cholesterol	Na_to_K	Drug	BP_HIGH	BP_LOW	BP_NORMAL
0	23	0	1	25.355	1	1	0	0
1	47	1	1	13.093	2	0	1	1
2	47	1	1	10.114	2	0	1	1
3	28	0	1	7.798	3	0	0	0
4	61	0	1	18.043	1	0	1	1





	Age	Sex	BP	Cholesterol	Na_to_K	Drug
0	23	F	HIGH	HIGH	25.355	drugY
1	47	M	LOW	HIGH	13.093	drugC
2	47	M	LOW	HIGH	10.114	drugC
3	28	F	NORMAL	HIGH	7.798	drugX
4	61	F	LOW	HIGH	18.043	drugY

```

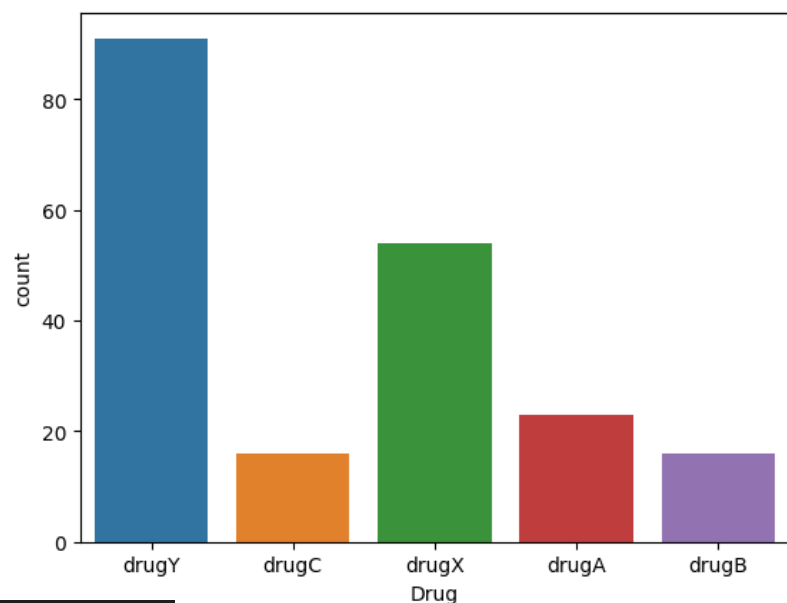
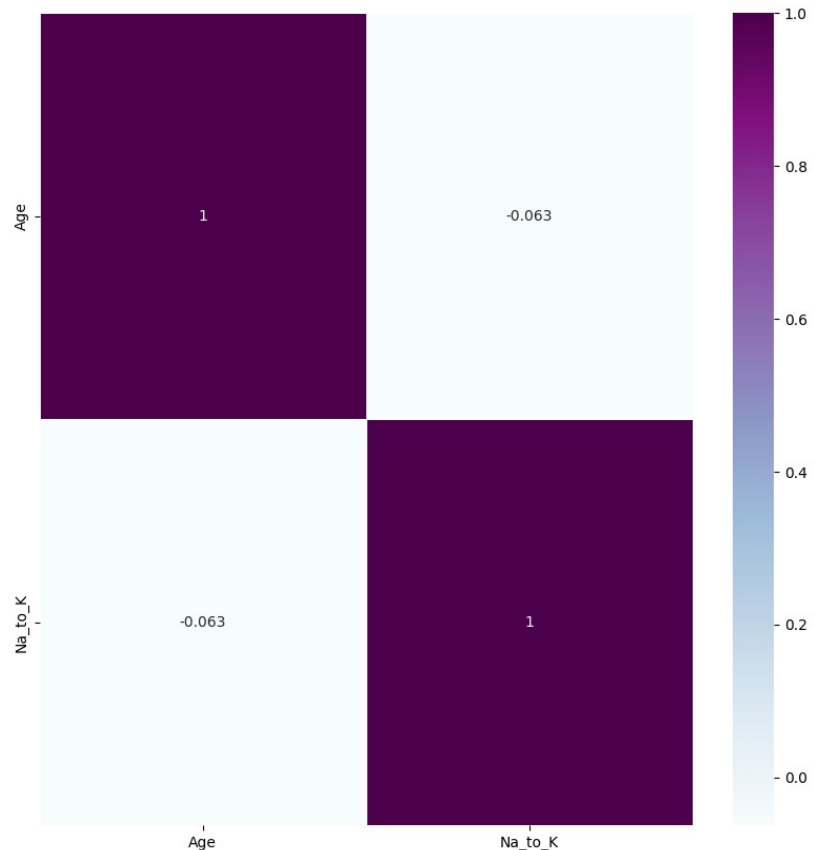
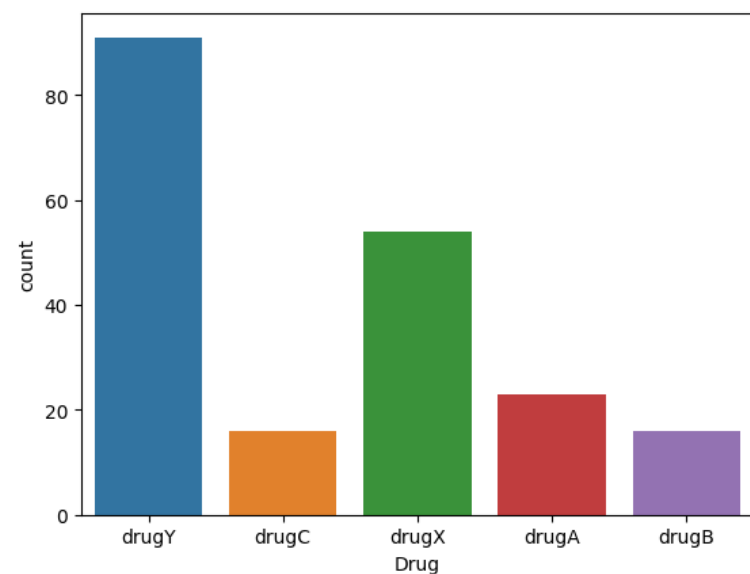
Age      0
Sex      0 drugY    91
BP       0 drugX    54
Cholesterol  0 drugA    23
Na_to_K  0 drugC    16
Drug     0 drugB    16
dtype: int64      Name: Drug, dtype: int64

```

```

<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

```



```

count      200.000000
mean       16.084485
std        7.223956
min        6.269000
25%       10.445500
50%       13.936500
75%       19.380000
max       38.247000
Name: Na_to_K, dtype: float64

```

```

HIGH      77
LOW       64
NORMAL    59
Name: BP, dtype: int64

```

```

HIGH      103
NORMAL    97
Name: Cholesterol, dtype: int64

```