Visualize the data using Python libraries matplotlib, seaborn by plotting the graphs for assignment no. 2 and 3 (Group B)

In [2]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.linear_model import LogisticRegression
from sklearn.model_selection import train_test_split
```

In [3]:
```
df =pd.read_csv("heart.csv")
```

In [4]:
```
df.head(10)
```

Out[4]:

	age	sex	cp	trestbps	chol	fbs	restecg	thalach	exang	oldpeak	slope	ca	thal	targ
0	63	1	3	145	233	1	0	150	0	2.3	0	0	1	
1	37	1	2	130	250	0	1	187	0	3.5	0	0	2	
2	41	0	1	130	204	0	0	172	0	1.4	2	0	2	
3	56	1	1	120	236	0	1	178	0	0.8	2	0	2	
4	57	0	0	120	354	0	1	163	1	0.6	2	0	2	
5	57	1	0	140	192	0	1	148	0	0.4	1	0	1	
6	56	0	1	140	294	0	0	153	0	1.3	1	0	2	
7	44	1	1	120	263	0	1	173	0	0.0	2	0	3	
8	52	1	2	172	199	1	1	162	0	0.5	2	0	3	
9	57	1	2	150	168	0	1	174	0	1.6	2	0	2	

Seaborn plot

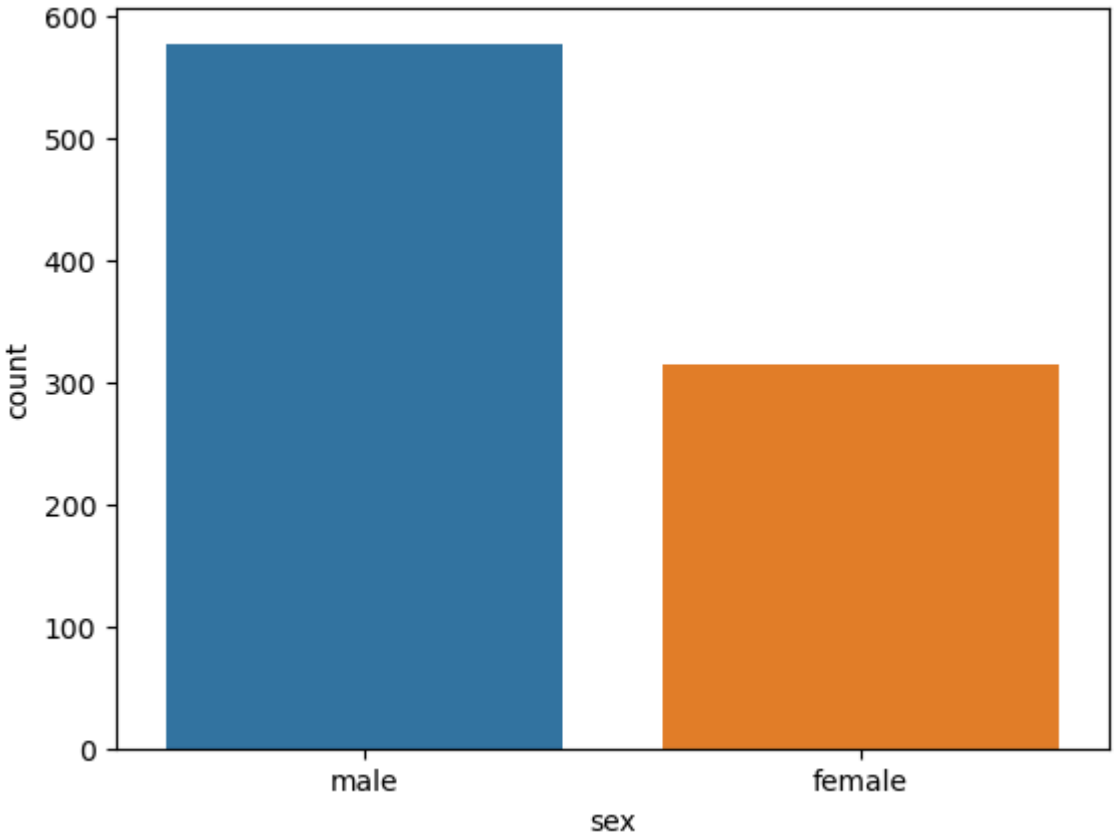
In [9]:
```
data =sns.load_dataset('titanic')
data.head()
```

Out[9]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_mal
0	0	3	male	22.0	1	0	7.2500	S	Third	man	Tru
1	1	1	female	38.0	1	0	71.2833	C	First	woman	Fals
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	Fals
3	1	1	female	35.0	1	0	53.1000	S	First	woman	Fals
4	0	3	male	35.0	0	0	8.0500	S	Third	man	Tru

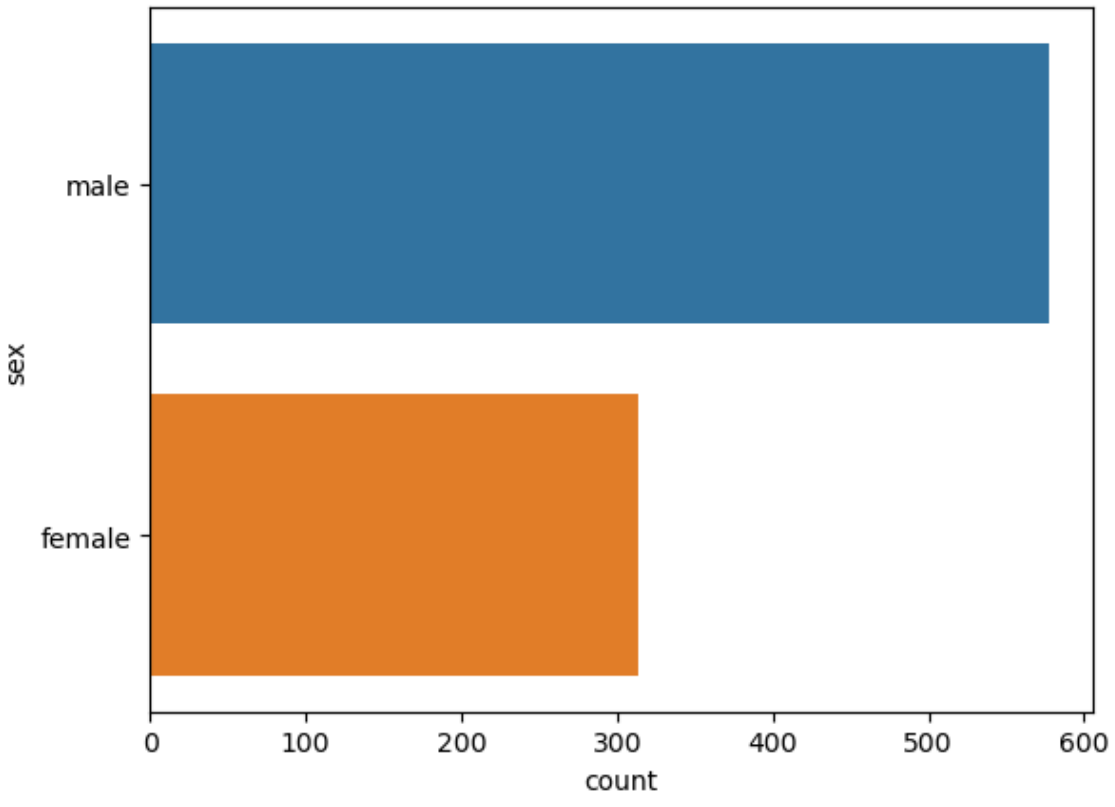
In [10]:
```
sns.countplot(data=data,x='sex')
```

Out[10]:
```
<Axes: xlabel='sex', ylabel='count'>
```



In [12]:
```
sns.countplot(data=data,y='sex')
```

Out[12]:
```
<Axes: xlabel='count', ylabel='sex'>
```



Histographic plot

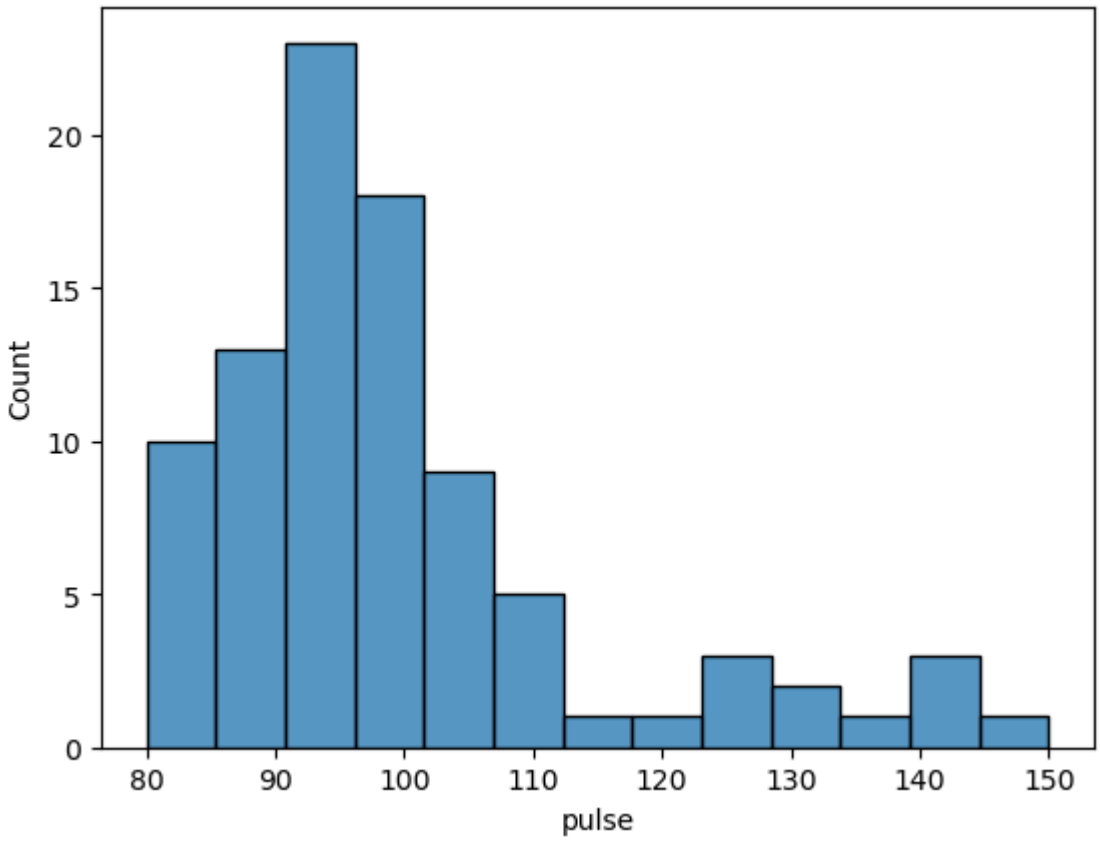
In [14]:
```
data = sns.load_dataset('exercise')
data.head()
```

Out[14]:

	Unnamed: 0	id	diet	pulse	time	kind
0	0	1	low fat	85	1 min	rest
1	1	1	low fat	85	15 min	rest
2	2	1	low fat	88	30 min	rest
3	3	2	low fat	90	1 min	rest
4	4	2	low fat	92	15 min	rest

In [15]:
```
sns.histplot(data=data,x='pulse')
```

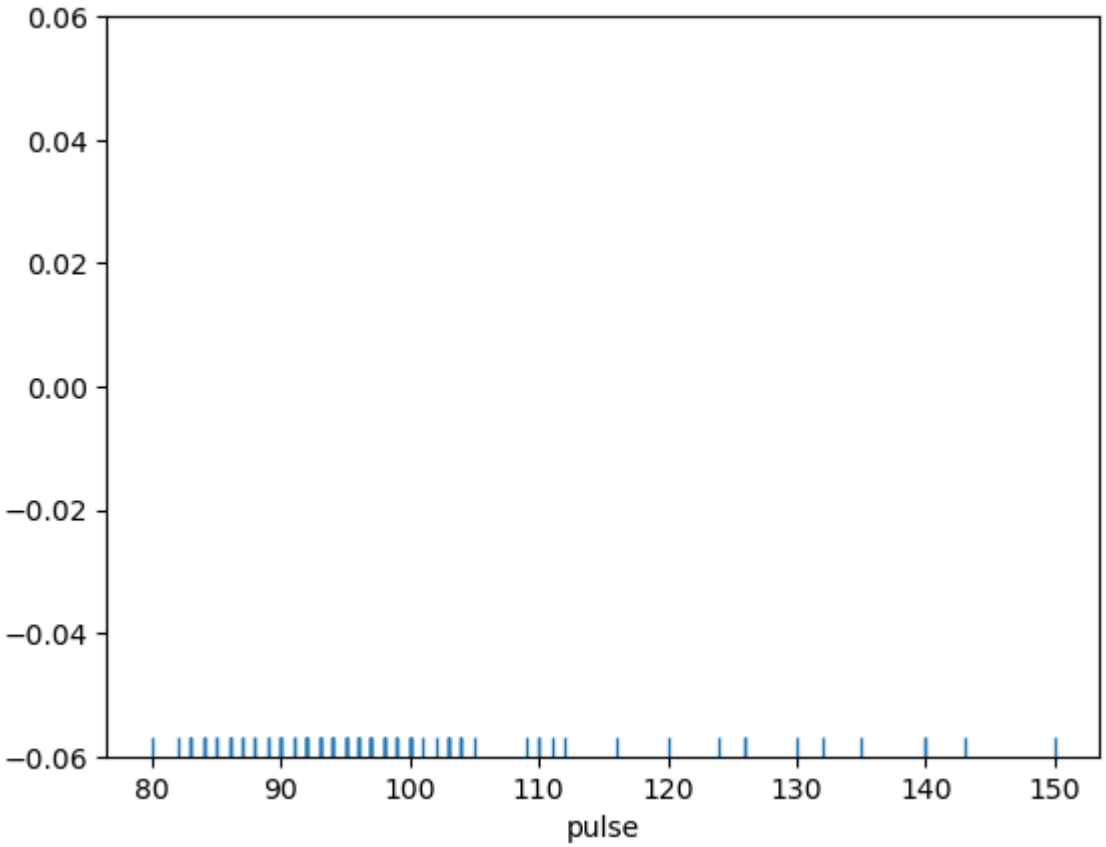
Out[15]:
```
<Axes: xlabel='pulse', ylabel='Count'>
```



Rugplot

In [16]:
```
sns.rugplot(data=data,x='pulse')
```

Out[16]:
```
<Axes: xlabel='pulse'>
```



In [ ]:
```

```