import pandas as pd import matplotlib.pyplot as plt import seaborn as sns from google.colab import files uploded=files.upload()

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

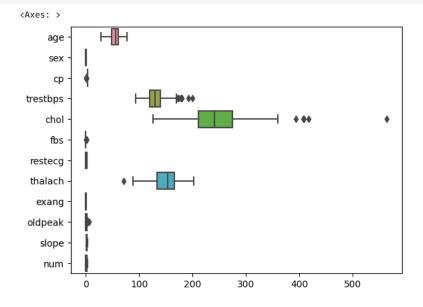
Saving heartdisease csv to heartdisease csv.

df=pd.read\_csv('heartdisease.csv')

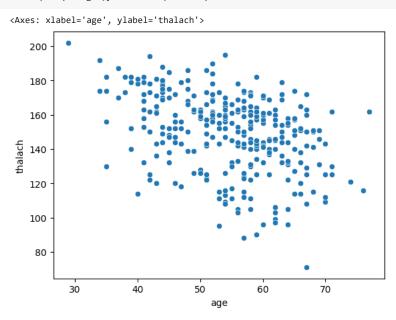
df

	age	sex	ср	trestbps	chol	fbs	restecg	thalach	exang	oldpeak	slope	ca	thal
0	63	1	1	145	233	1	2	150	0	2.3	3	0	6
1	67	1	4	160	286	0	2	108	1	1.5	2	3	3
2	67	1	4	120	229	0	2	129	1	2.6	2	2	7
3	37	1	3	130	250	0	0	187	0	3.5	3	0	3
4	41	0	2	130	204	0	2	172	0	1.4	1	0	3
298	45	1	1	110	264	0	0	132	0	1.2	2	0	7
299	68	1	4	144	193	1	0	141	0	3.4	2	2	7
300	57	1	4	130	131	0	0	115	1	1.2	2	1	7
301	57	0	2	130	236	0	2	174	0	0.0	2	1	3
302	38	1	3	138	175	0	0	173	0	0.0	1	?	3
303 rows × 14 columns													<b>•</b>

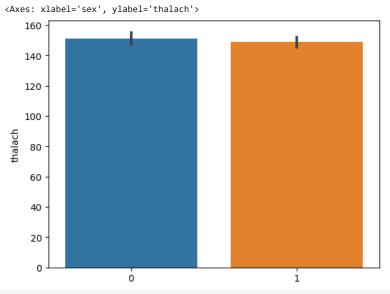
#box plot
sns.boxplot(data=df,orient='h')



# scatterplot
sns.scatterplot(x='age',y='thalach',data=df)

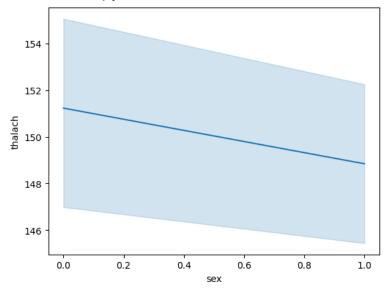


# barplot
sns.barplot(x='sex',y='thalach',data=df)



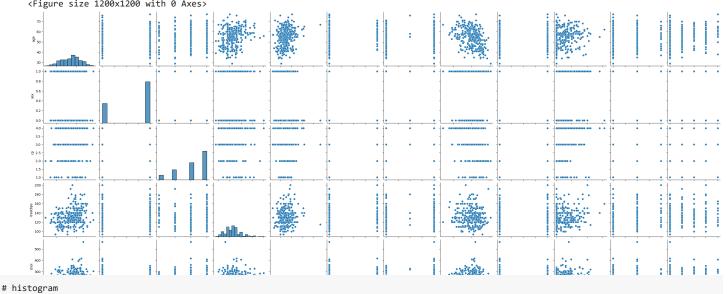
# scatterplot
sns.lineplot(x='sex',y='thalach',data=df)

<Axes: xlabel='sex', ylabel='thalach'>



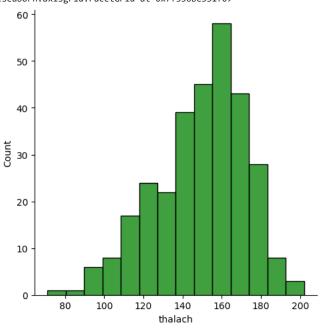
# pairplot
plt.figure(figsize=(12,12))
sns.pairplot(df)

<seaborn.axisgrid.PairGrid at 0x7f33768457e0>
<Figure size 1200x1200 with 0 Axes>

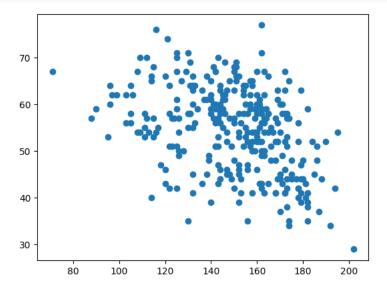


<seaborn.axisgrid.FacetGrid at 0x7f336be331f0>

sns.displot(df['thalach'],color='g')



# scatterplot using matplotlib
plt.scatter(df['thalach'],df['age'])
plt.show()



# pieplot using matplotlib
sex\_df=pd.DataFrame(df['sex'].value\_counts())

sex\_df

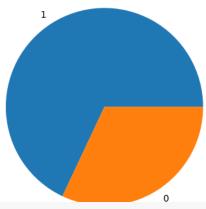
sex

1 206

**0** 97

plt.pie(sex\_df['sex'],labels=sex\_df.index)

```
([<matplotlib.patches.Wedge at 0x7f3371009030>,
  <matplotlib.patches.Wedge at 0x7f337100b9d0>],
  [Text(-0.5890242258008583, 0.9290050922463771, '1'),
  Text(0.5890242258008579, -0.9290050922463774, '0')])
```



# barplot using matplotlib
plt.bar(sex\_df.index,sex\_df['sex'])

## <BarContainer object of 2 artists>

