| [7]:                             | age         sex         cp         trestbps         chol         fbs         restecg         thalach         examg         oldpeak         slope         ca         thal         num           0         28         1         2         130.0         132.0         0.0         2.0         185.0         0.0         0.0         NaN         NaN         NaN         0           1         29         1         2         120.0         243.0         0.0         160.0         0.0         0.0         NaN         NaN         NaN         0           2         29         1         2         140.0         NaN         0.0         170.0         0.0         0.0         NaN         NaN         NaN         0           3         30         0         1         170.0         237.0         0.0         150.0         0.0         NaN         NaN         NaN         0           4         31         0         2         105.0         190.0         150.0         0.0         NaN         NaN         NaN         0           5         32         0         2         105.0         0.0         165.0         0.0         0.0         <   |
|----------------------------------|--|
| [9]:<br>[9]:                     | 9 34 0 2 130.0 161.0 0.0 190.0 |
| [8]:                             | ### Information of the dataset    df.info()  |
| 10]:                             | df.isnull().sum()  age   |
| 11]:                             | dff.describe()           age         sex         cp         trestbps         chol         fbs         restecg         thalach         exang         oldpeak         slope         ca         thal         num           count         294.000000  |
| [12]:                            | df.head()  age sex cp trestbps chol fbs restecg thalach exang oldpeak slope ca thal num  0 28 1 2 130.0 132.0 0.0 2.0 185.0 0.0 0.0 NaN NaN NaN NaN 0  1 29 1 2 120.0 243.0 0.0 0.0 160.0 0.0 NaN NaN NaN NaN 0  2 29 1 2 140.0 NaN 0.0 0.0 170.0 0.0 0.0 NaN NaN NaN NaN 0  3 30 0 1 170.0 237.0 0.0 1.0 170.0 0.0 0.0 NaN NaN NaN 0  4 31 0 2 100.0 219.0 0.0 1.0 150.0 0.0 0.0 NaN NaN NaN NaN 0  |
| [13]:<br>[14]:<br>[14]:          | df-head()    age   sex   cp   trestbps   chol   fbs   restecg   thalach   exang   oldpeak   num  |
| 16]:<br>16]:                     | df.head()  age sex cp trestbps chol fbs restecg thalach exang oldpeak num  0 28 1 2 130.0 132.0 0.0 2.0 185.0 0.0 0.0 0.0 0.0  1 29 1 2 120.0 243.0 0.0 1.0 170.0 0.0 0.0 0.0 0.0  3 30 0 1 170.0 237.0 0.0 1.0 170.0 0.0 0.0 0.0 0.0  4 31 0 2 100.0 219.0 0.0 1.0 150.0 0.0 0.0 0.0  5 32 0 2 105.0 198.0 0.0 0.0 165.0 0.0 0.0 0.0  |
| 17]:                             | df.info() <class 'pandas.core.frame.dataframe'=""> Int64Index: 261 entries, 0 to 293  Data columns (total 11 columns):  # Column Non-Null Count Dtype </class>   |
| 18]:<br>18]:<br>19]:             | <pre>sex     0 cp     0 trestbps     0 chol     0 fbs     0 restecg     0 thalach     0 exang     0 oldpeak     0 num      0 dtype: int64</pre> <pre>df["sex"].value_counts()</pre>  |
| [20]:<br>[20]:<br>[21]:<br>[21]: | 0 69 Name: sex, dtype: int64  df["cp"].value_counts()  |
|                                  | 0.0  |
| []:                              | 1       29       1       120.0       243.0       0.0       160.0       0.0       0       0       1       0       0       1       0       0         3       30       0       170.0       237.0       0.0       170.0       0.0       0       0       0       0       0       1       0         4       31       0       100.0       219.0       0.0       150.0       0.0       0       0       0       0       1       0         5       32       0       105.0       198.0       0.0       165.0       0.0       0       0       1       0 </td   |