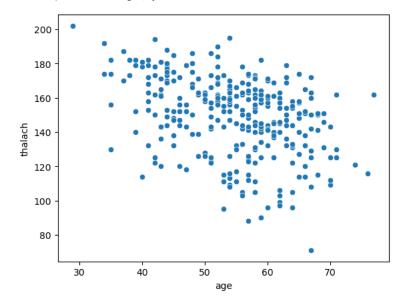
```
In [2]: #Visualize the data using Python libraries matplotlib, seaborn by plotting the graphs for assignment no. 2 and 3 ( Group B)
          #import dependencies
          import matplotlib.pyplot as plt
          import seaborn as sns
          import numpy as np
import pandas as pd
 In [3]: df= pd.read_csv('heartdisease.csv')
 In [4]: df.head(5)
 Out[4]:
              age sex cp trestbps chol fbs restecg thalach exang oldpeak slope ca
              63
                              145
                                   233
                                                        150
                                                                              3
                                                                                  0
                                                                                            0
                              160
                                    286
                                                        108
                                                                                            2
               67
                        4
                              120
                                   229
                                          0
                                                        129
                                                                       2.6
                                                                                  2
                       3
                              130
                                   250
                                          0
                                                  0
                                                        187
                                                                0
                                                                       3.5
                                                                              3
                                                                                  0
                                                                                       3
                                                                                            0
                    0
                              130
                                   204
                                                        172
                                                                                  0
                                                                                       3
                                                                                            0
 In [6]:
In [18]: #Barplot using seaborn
sns.barplot(x='sex', y='thalach', data = df)
Out[18]: <AxesSubplot:xlabel='sex', ylabel='thalach'>
              160
              140
              120
              100
                80
                60
                40
                20
```

sex

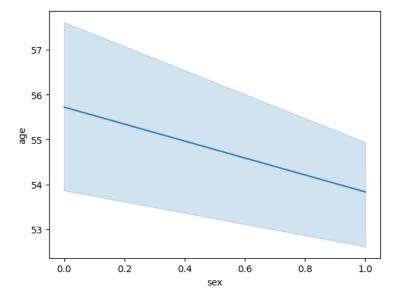
```
In [20]: #ScatterPlot using seaborn
sns.scatterplot(x='age', y='thalach', data = df)
```

Out[20]: <AxesSubplot:xlabel='age', ylabel='thalach'>



```
In [17]: #Lineplot using seaborn
sns.lineplot(x='sex', y='age', data = df)
```

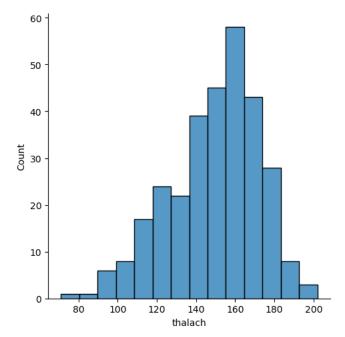
Out[17]: <AxesSubplot:xlabel='sex', ylabel='age'>



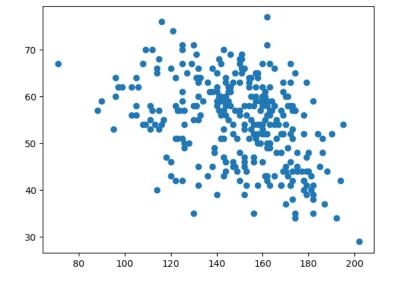
```
In [29]: #Pairplot using seaborn
            plt.figure(figsize=(12,12))
sns.pairplot(df, hue= 'sex' , palette = 'Blues')
Out[29]: <seaborn.axisgrid.PairGrid at 0xde46aadfd0>
             <Figure size 1200x1200 with 0 Axes>
             30 L
4.0 -
3.5 -
3.0 -
8 2.5 -
             Do 1.0
```

```
In [25]: #Displot using seaborn
sns.displot(df['thalach'])
```

Out[25]: <seaborn.axisgrid.FacetGrid at 0xde2fc6dd60>



```
In [35]: #ScatterPlot using Matplotlib
plt.scatter(df['thalach'], df['age'])
              plt.show()
```



```
In [ ]:
```

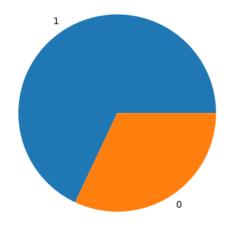
In [ ]:

```
In [45]: #PiePlot using Matplotlib
         sex_df = pd.DataFrame(df['sex'].value_counts())
         sex_df
```

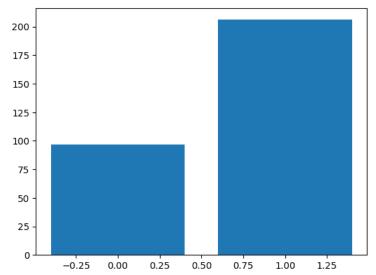
Out[45]: sex

```
1 206
```

0 97







In [ ]: