

Line Plot

In [1]:

```
#import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset

flowers = sns.load_dataset('iris')
print(flowers)
```

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
..
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

[150 rows x 5 columns]

In [2]:

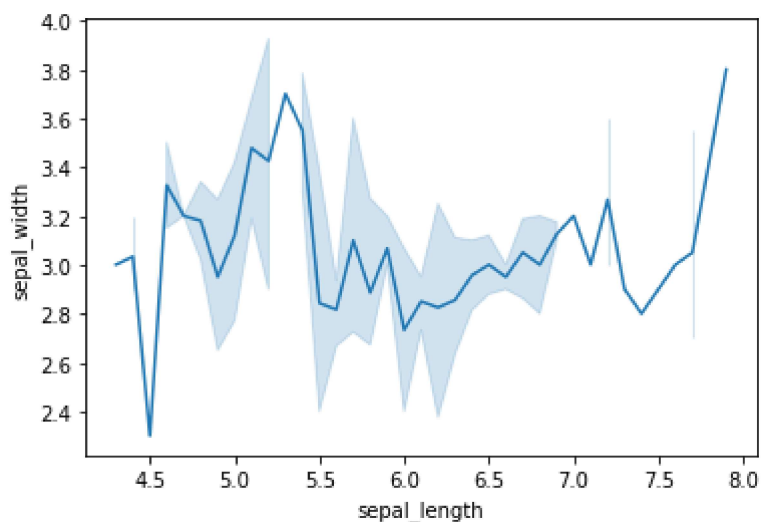
```
#import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset

flowers = sns.load_dataset('iris')

sns.lineplot(x = 'sepal_length', y = 'sepal_width', data = flowers)
plt.show()
```



In [3]:

```
#import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset

flowers = sns.load_dataset('iris')

#create the plot
sns.lineplot(x = 'sepal_length', y = 'sepal_width', data = flowers)

#setting the title of the plot
plt.title('Plot of flowers')

#adding the limit of axis

plt.xlim(4)
plt.ylim(2)

plt.show()
```



In [41]:

```
#import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#removing the style of the plot

#Load dataset

flowers = sns.load_dataset('iris')

#create the plot
sns.lineplot(x = 'sepal_length', y = 'sepal_width', data = flowers)

#setting the title of the plot
plt.title('Plot of flowers')
```

```

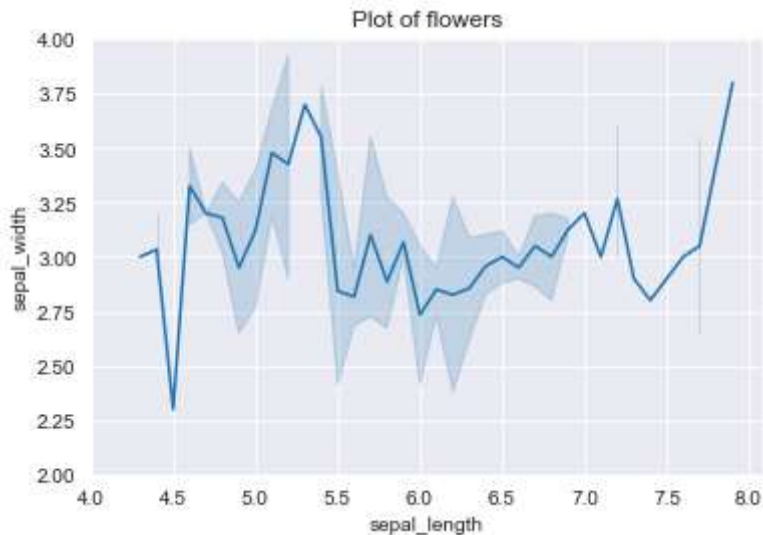
#adding the limit of axis

plt.xlim(4)
plt.ylim(2)

#setting the styling of the plots
#white, dark, whitegrid, darkgrid, ticks
sns.set_style(style='darkgrid')
sns.set_style(style = None, rc = None)

plt.show()

```



In [40]:

```

#import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#removing the style of the plot

#load dataset

flowers = sns.load_dataset('iris')

#setting the figure size

plt.figure(figsize=(8,4))

#create the plot
sns.lineplot(x = 'sepal_length', y = 'sepal_width', data = flowers)

#setting the title of the plot
plt.title('Plot of flowers')

#adding the limit of axis

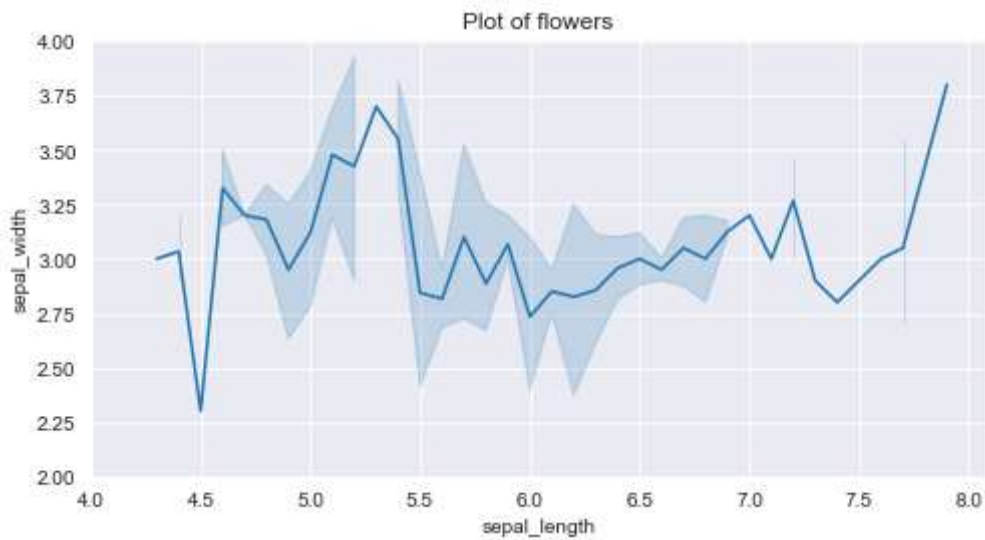
plt.xlim(4)
plt.ylim(2)

#setting the styling of the plots
#white, dark, whitegrid, darkgrid, ticks

```

```
sns.set_style(style='darkgrid')
sns.set_style(style = None, rc = None)

plt.show()
```



Bar plot

```
In [16]: #import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset

flowers = sns.load_dataset('iris')
print(flowers)
```

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
..
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

[150 rows x 5 columns]

```
In [23]: #import libraries

import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset
```

```
flowers = sns.load_dataset('iris')

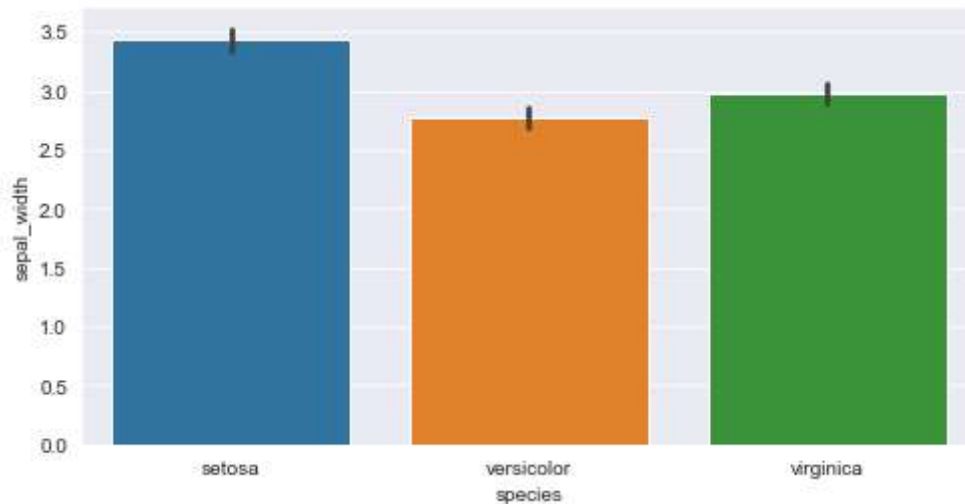
#changing the figure

plt.figure(figsize=(8,4))

#creating the barplot

sns.barplot(x='species', y = 'sepal_width' ,data = flowers)

plt.show()
```



```
In [24]: #importing libraries
import seaborn as sns
import matplotlib.pyplot as plt

titanic_ship_dataset = sns.load_dataset('titanic')
print(titanic_ship_dataset)
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class \
0	0	3	male	22.0	1	0	7.2500	S	Third
1	1	1	female	38.0	1	0	71.2833	C	First
2	1	3	female	26.0	0	0	7.9250	S	Third
3	1	1	female	35.0	1	0	53.1000	S	First
4	0	3	male	35.0	0	0	8.0500	S	Third
..
886	0	2	male	27.0	0	0	13.0000	S	Second
887	1	1	female	19.0	0	0	30.0000	S	First
888	0	3	female	NaN	1	2	23.4500	S	Third
889	1	1	male	26.0	0	0	30.0000	C	First
890	0	3	male	32.0	0	0	7.7500	Q	Third

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True
..
886	man	True	NaN	Southampton	no	True
887	woman	False	B	Southampton	yes	True
888	woman	False	NaN	Southampton	no	False

889	man	True	C	Cherbourg	yes	True
890	man	True	NaN	Queenstown	no	True

[891 rows x 15 columns]

In [42]:

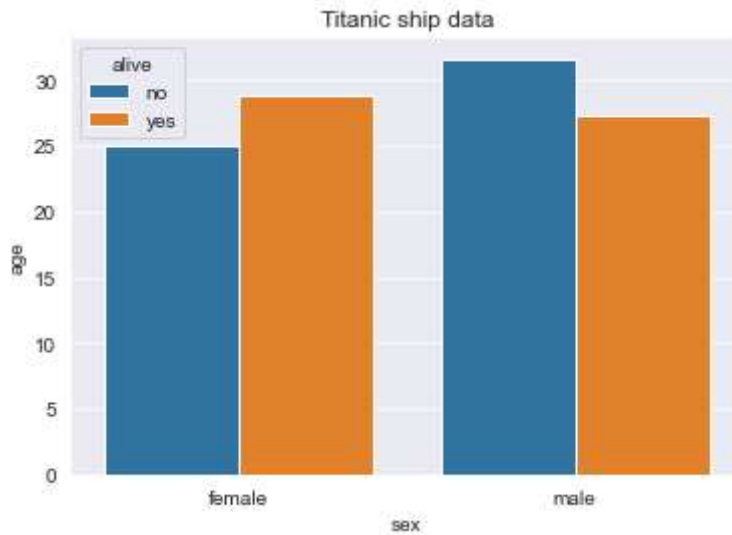
```
import seaborn as sns
import matplotlib.pyplot as plt
from numpy import mean
titanic_dataset = sns.load_dataset('titanic')

plt.title('Titanic ship data')

sns.barplot(x='sex', y='age', hue='alive', data=titanic_dataset, order=['female',

sns.set_style('darkgrid')
sns.set_style(style=None, rc=None)

plt.show()
```



In [43]:

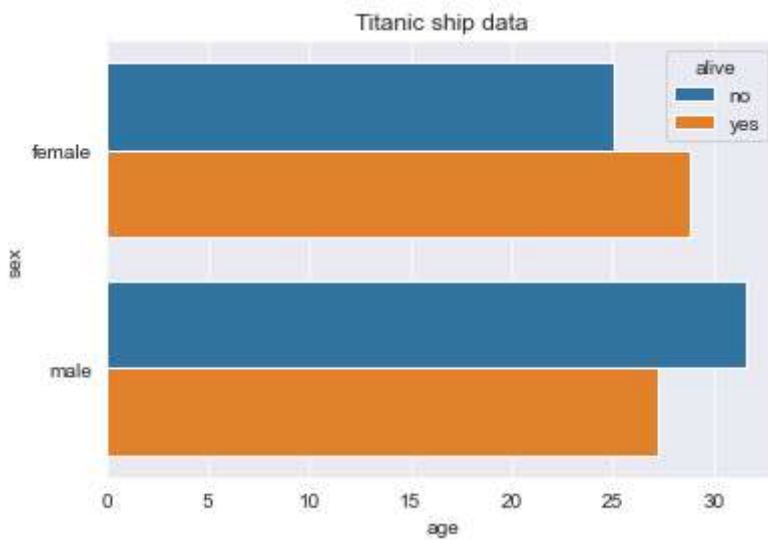
```
import seaborn as sns
import matplotlib.pyplot as plt
from numpy import mean
titanic_dataset = sns.load_dataset('titanic')

plt.title('Titanic ship data')

sns.barplot(x='age', y='sex', hue='alive', data=titanic_dataset, order=['female',

sns.set_style('darkgrid')
sns.set_style(style=None, rc=None)

plt.show()
```



Box plot

```
In [50]: import seaborn as sns

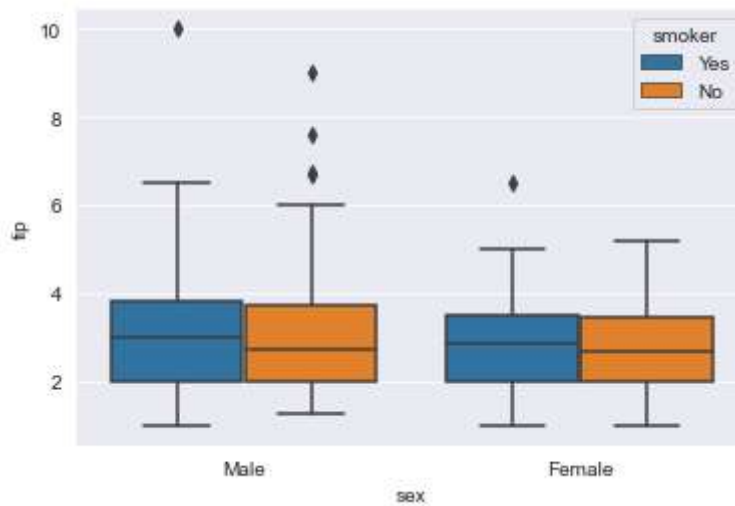
tips_data = sns.load_dataset('tips')
tips_data.describe()
```

```
Out[50]:
```

	total_bill	tip	size
count	244.000000	244.000000	244.000000
mean	19.785943	2.998279	2.569672
std	8.902412	1.383638	0.951100
min	3.070000	1.000000	1.000000
25%	13.347500	2.000000	2.000000
50%	17.795000	2.900000	2.000000
75%	24.127500	3.562500	3.000000
max	50.810000	10.000000	6.000000

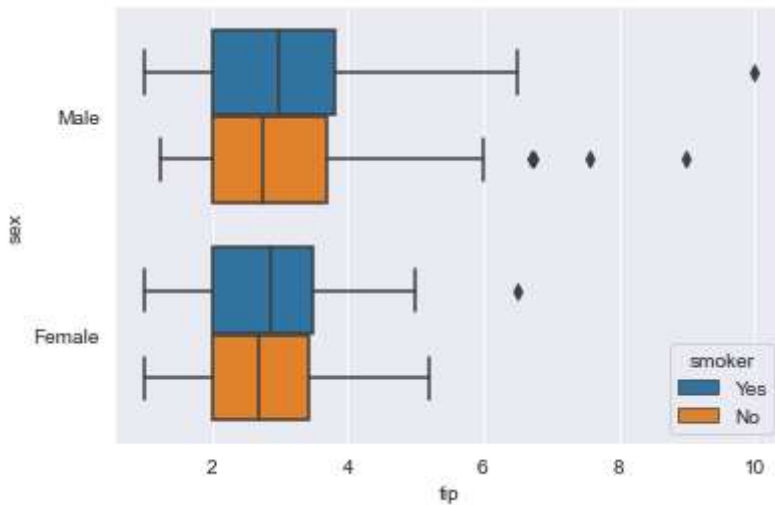
```
In [53]: import seaborn as sns
import matplotlib.pyplot as plt
tips_data = sns.load_dataset('tips')

sns.boxplot(x='sex', y='tip', data=tips_data, hue='smoker', dodge=True)
plt.show()
```



```
In [59]: import seaborn as sns
import matplotlib.pyplot as plt
tips_data = sns.load_dataset('tips')

sns.boxplot(x='tip', y='sex', data=tips_data, hue='smoker', dodge=True)
plt.show()
```



```
In [60]: import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np

titanic_data = sns.load_dataset('titanic')
titanic_data.head()
```

```
Out[60]:
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	e
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	5
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	5

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	e
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	5
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	5

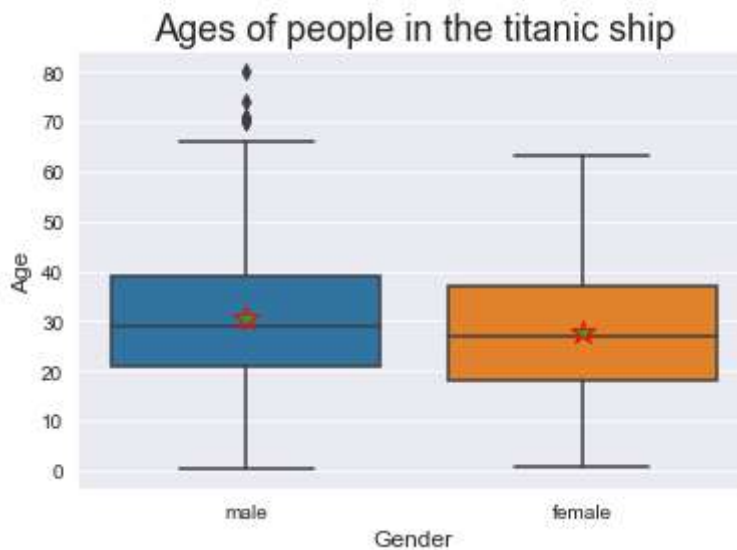
In [72]:

```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np

titanic_data = sns.load_dataset('titanic')

p1 = sns.boxplot(x='sex',
                 y='age',
                 data = titanic_data,
                 showmeans = True,
                 meanprops = {
                     'marker': '*',
                     'markersize' : '12',
                     'markeredgecolor': 'red'
                 })
plt.title('Ages of people in the titanic ship', size = '18')
plt.xlabel('Gender', size = '12')
plt.ylabel('Age', size = '12')
```

Out[72]: Text(0, 0.5, 'Age')



In []: