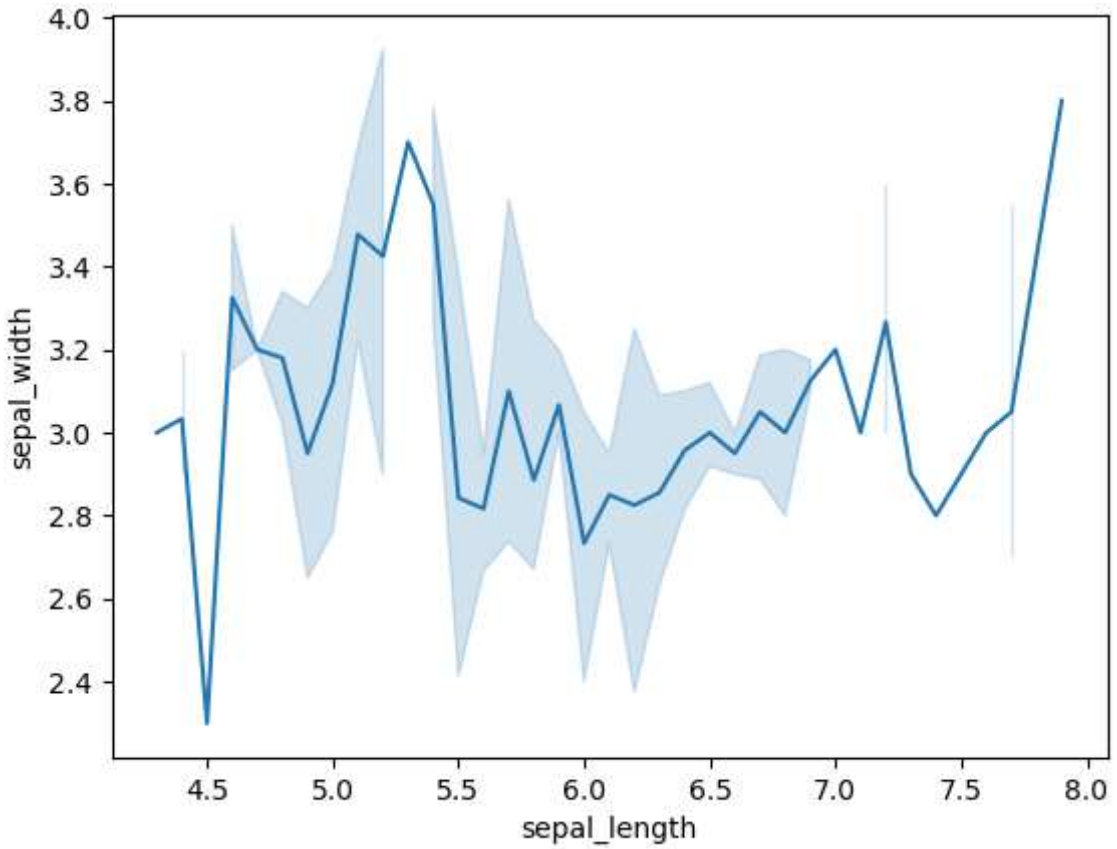
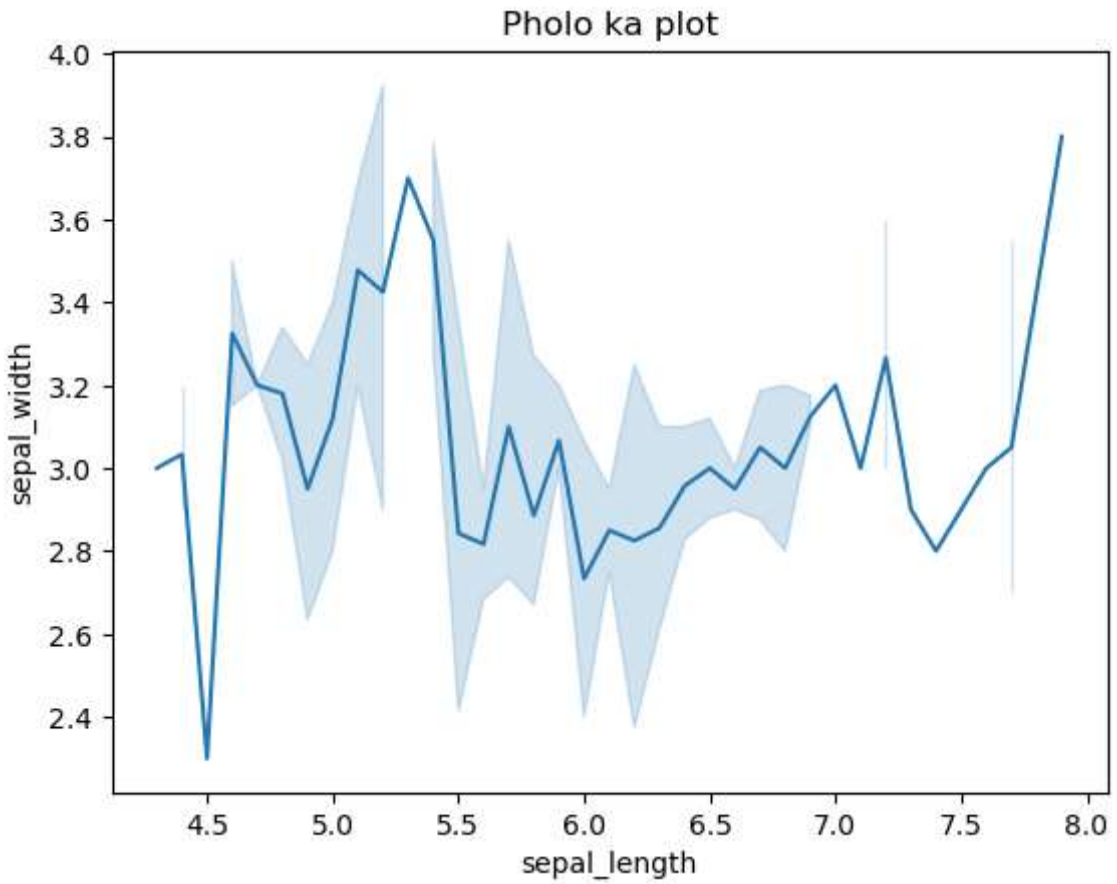
plots in python

In [4]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
sns.lineplot(x="sepal_length",y="sepal_width",data=phool)
plt.show()
```



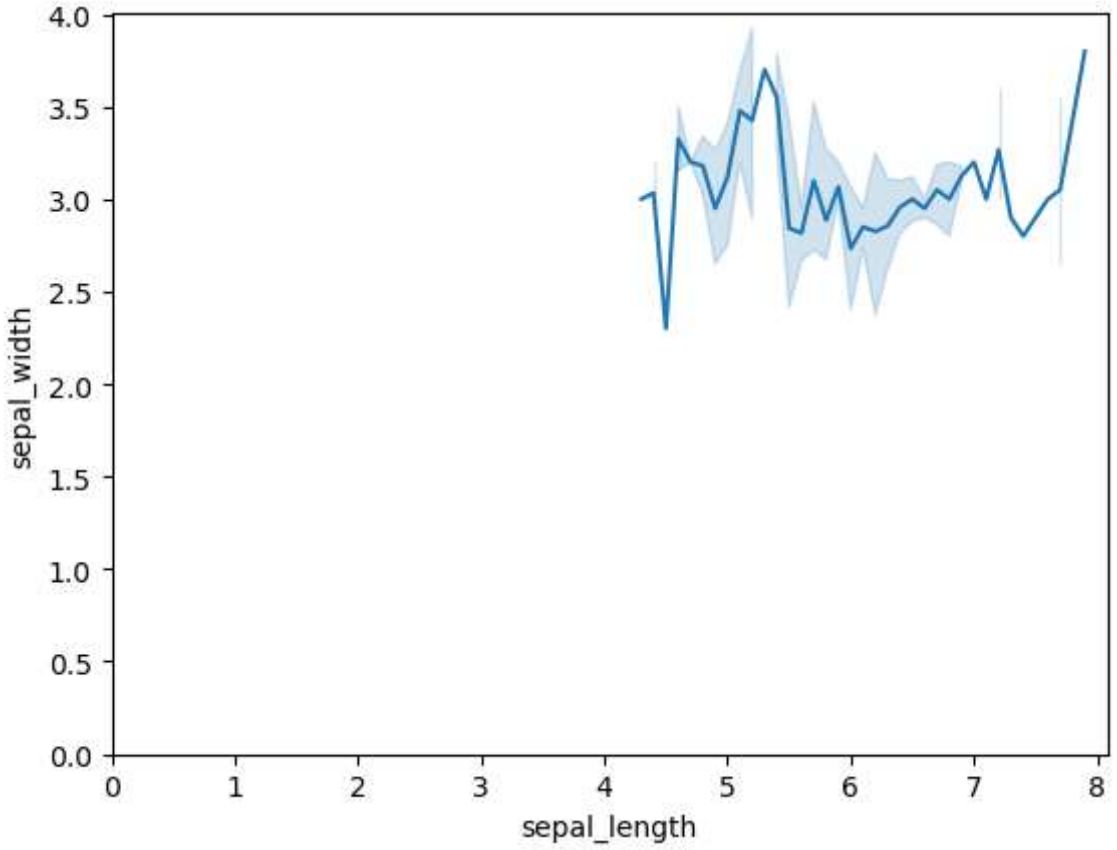
adding titles

In [5]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
sns.lineplot(x="sepal_length",y="sepal_width",data=phool)
plt.title("Pholo ka plot")
plt.show()
```



Adding limits

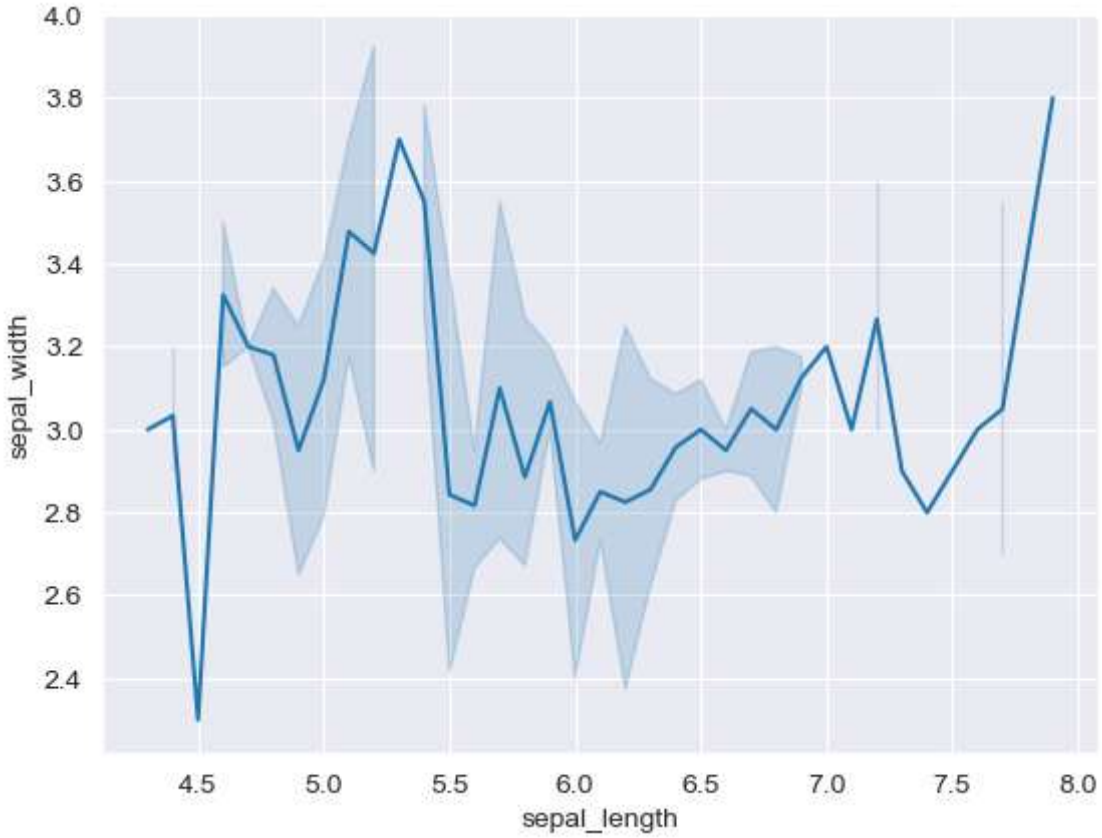
In [7]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
sns.lineplot(x="sepal_length",y="sepal_width",data=phool)
plt.xlim(0)
plt.ylim(0)
plt.show()
```



set style

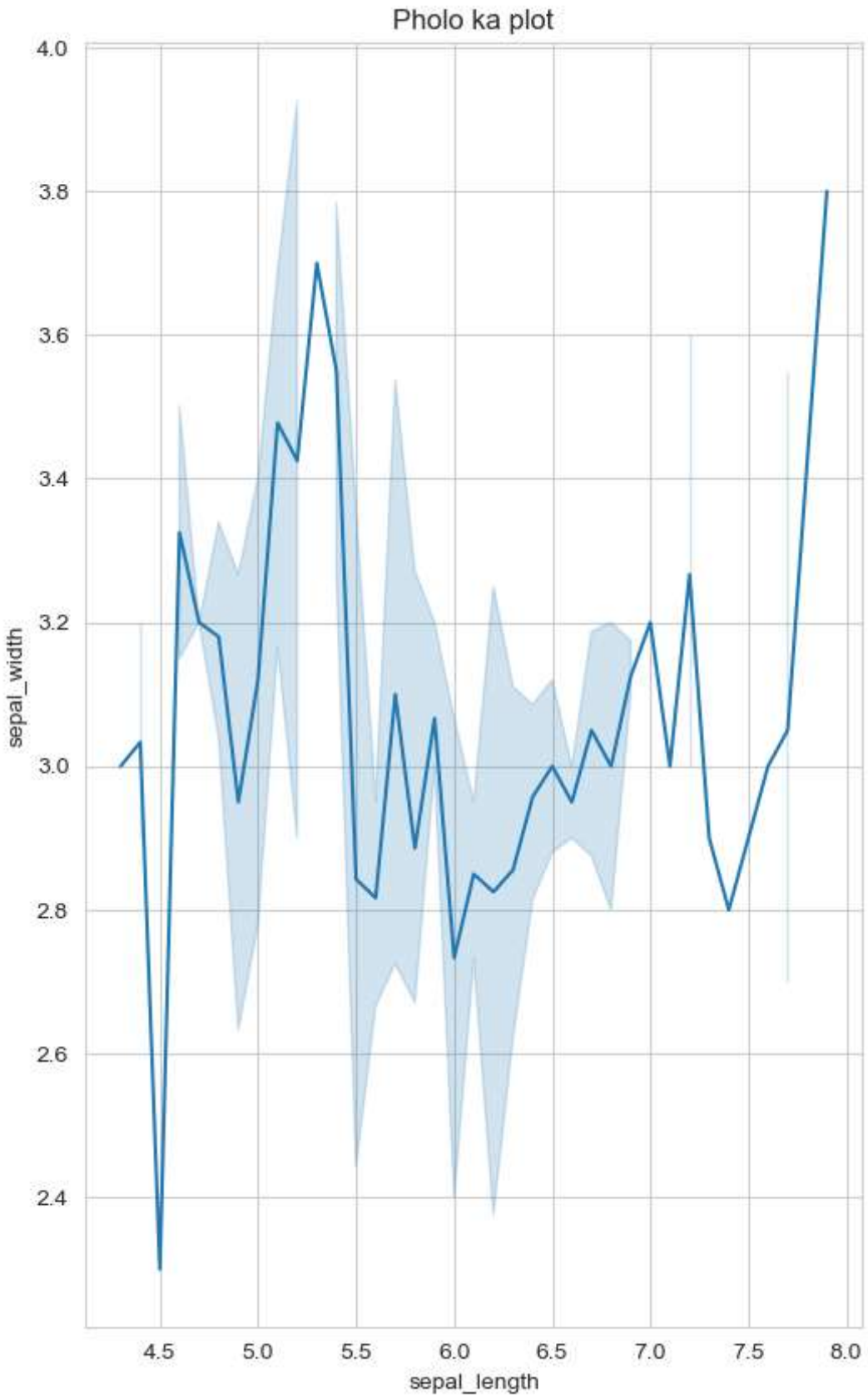
- dark
- white
- ticks
- whitegrid
- darkgrid

In [20]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
sns.lineplot(x="sepal_length",y="sepal_width",data=phool)
sns.set_style("whitegrid")
plt.show()
```



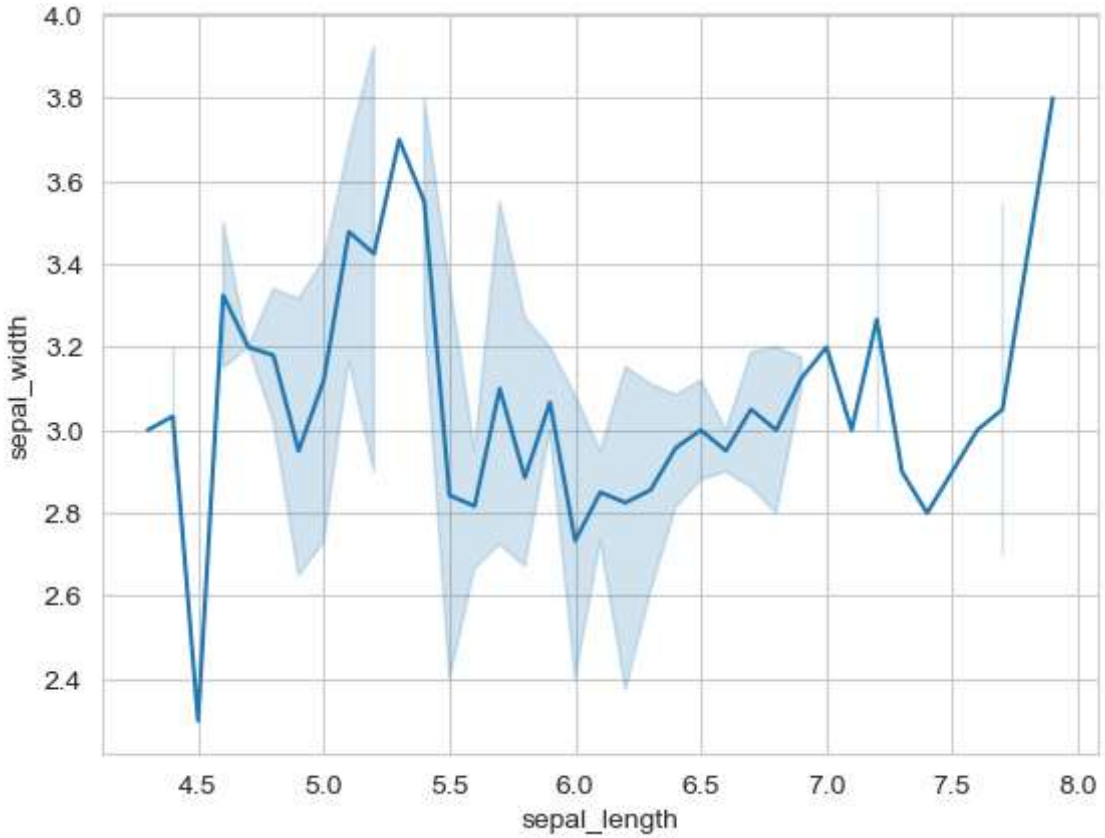
Size of figure

In [27]:
```
import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset
phool=sns.load_dataset("iris")
plt.figure(figsize=(6,10))
sns.lineplot(x="sepal_length",y="sepal_width",data=phool)
plt.title("Pholo ka plot")

plt.show()
```



In [28]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
```

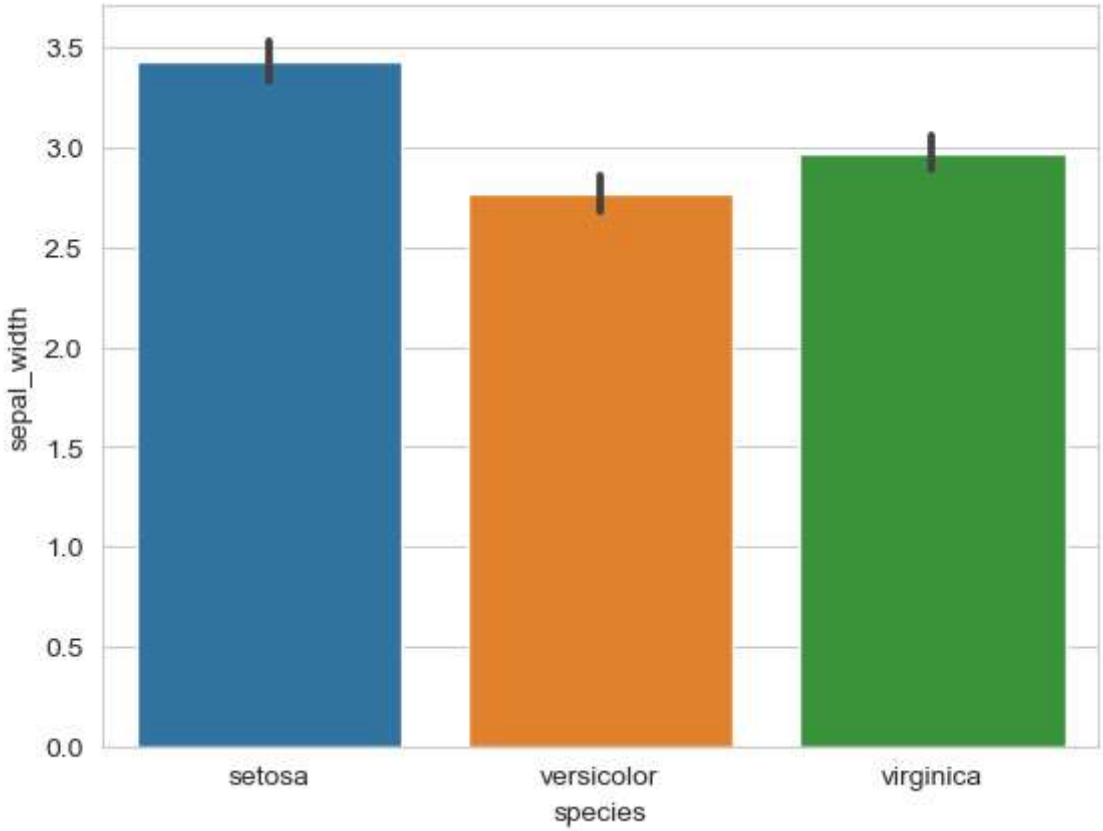
```
sns.lineplot(x="sepal_length",y="sepal_width",data=phool)
sns.set_style("whitegrid")
#changing figure size
plt.figure(figsize=(8,10))
plt.show()
```




```
<Figure size 800x1000 with 0 Axes>
```

Bar plot

In [30]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
sns.barplot(x="species",y="sepal_width",data=phool)
sns.set_style("whitegrid")
plt.show()
```



In [31]:
```
phool
```

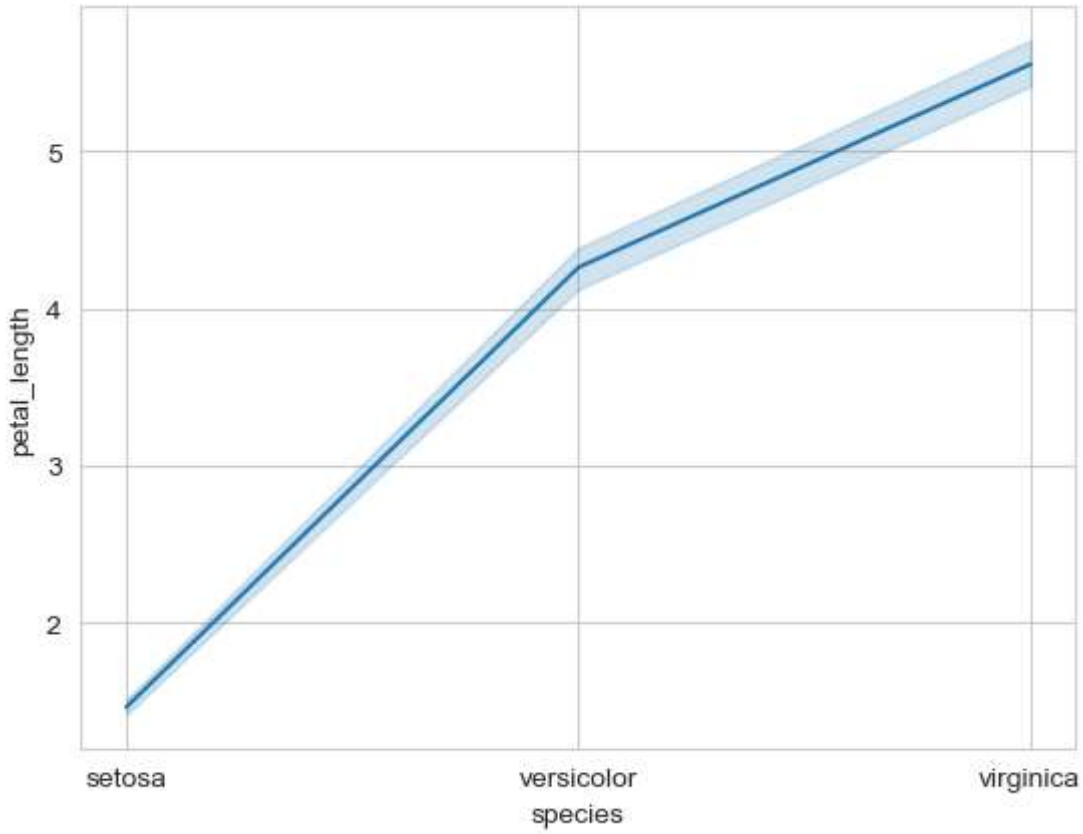
Out[31]:

	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 × 5 columns

In [32]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
phool=sns.load_dataset("iris")
```

```
sns.lineplot(x="species",y="petal_length",data=phool)
sns.set_style("whitegrid")
plt.show()
```



In [33]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
jahaz=sns.load_dataset("titanic")
jahaz
```

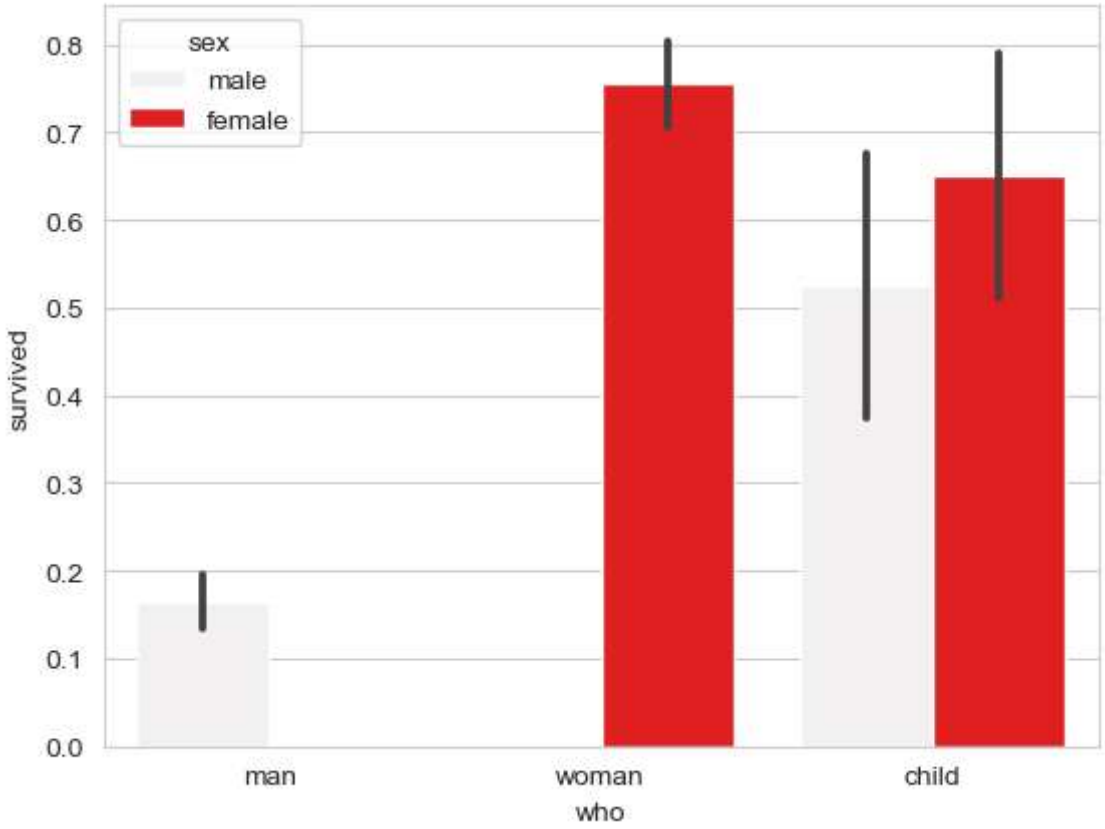
Out[33]:

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

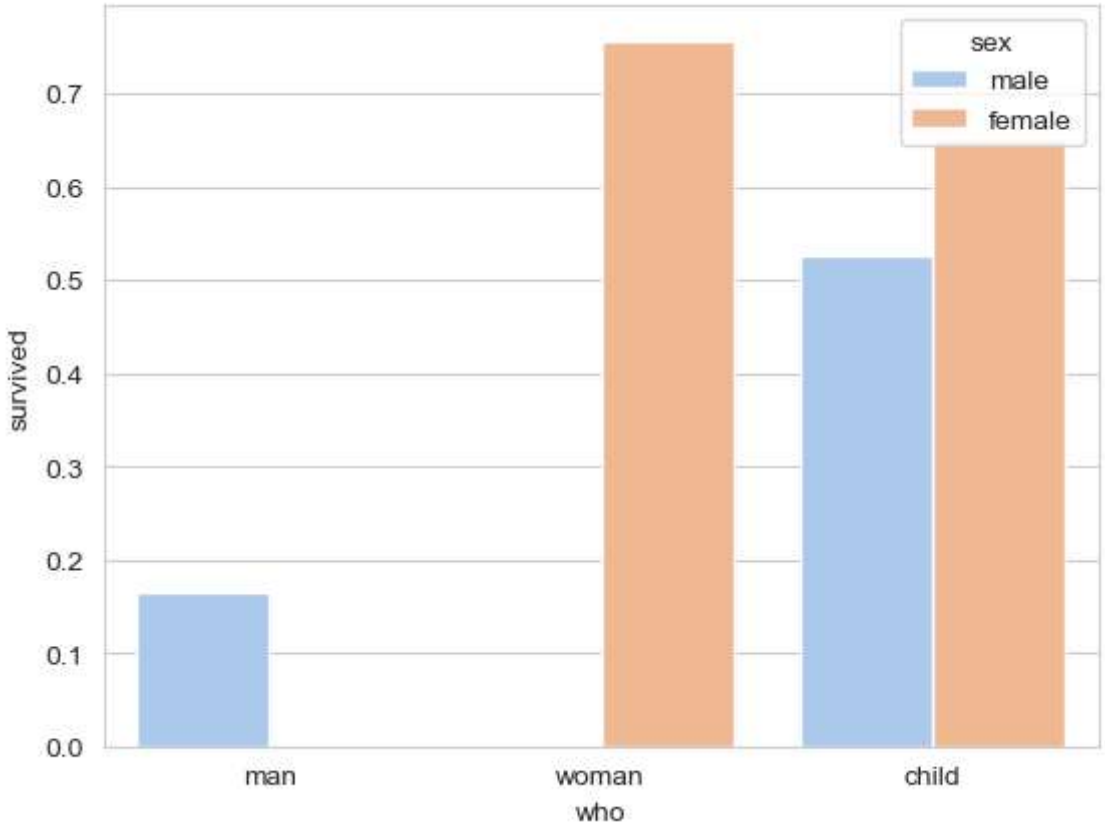
891 rows × 15 columns

In [40]:

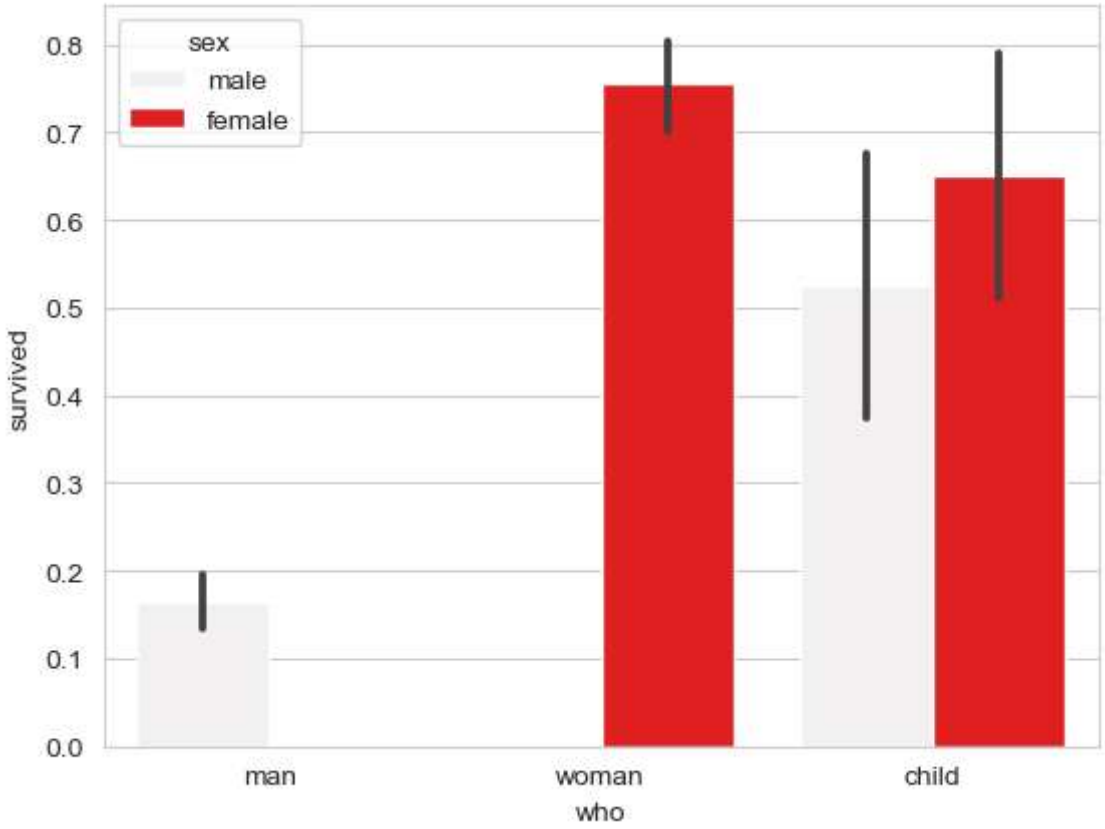
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#load dataset
jahaz=sns.load_dataset("titanic")
sns.barplot(x="who",y="survived",hue="sex",color="red",data=jahaz)
sns.set_style("whitegrid")
plt.show()
```



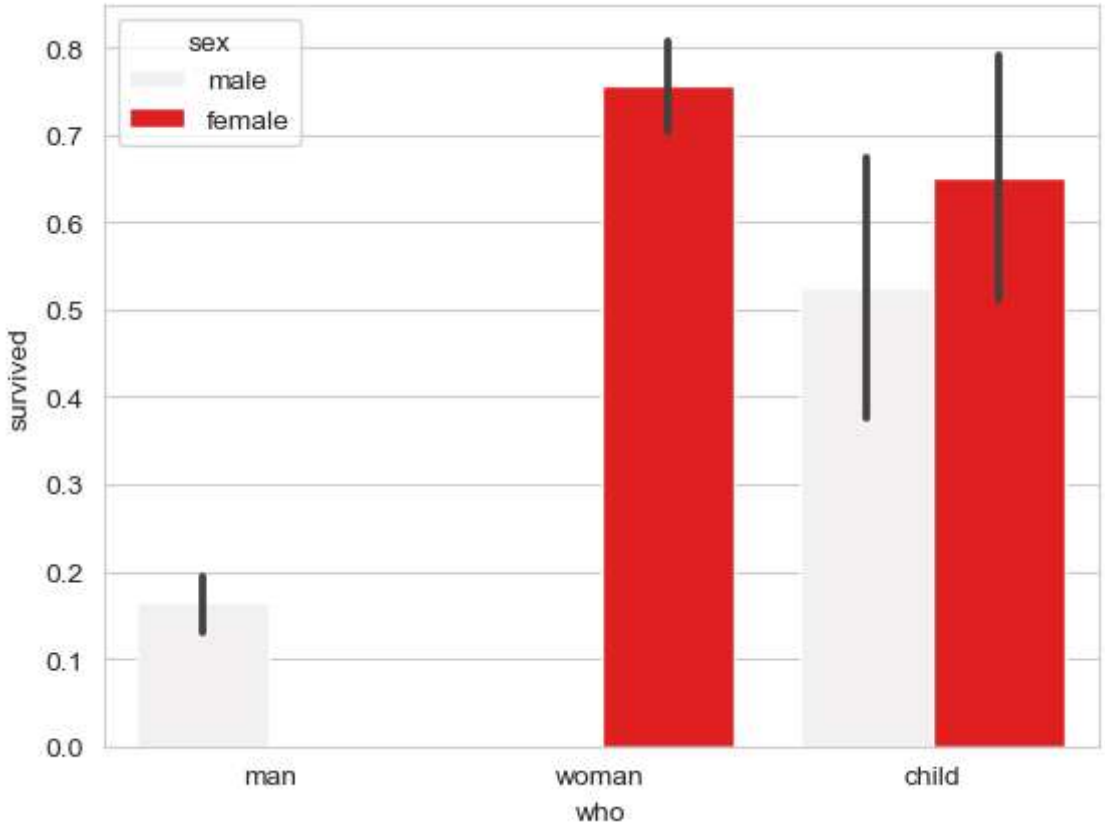
In [44]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset
jahaz=sns.load_dataset("titanic")
sns.barplot(x="who",y="survived",hue="sex",color="red",data=jahaz,errorbar=None,palett
sns.set_style("whitegrid")
plt.show()
```



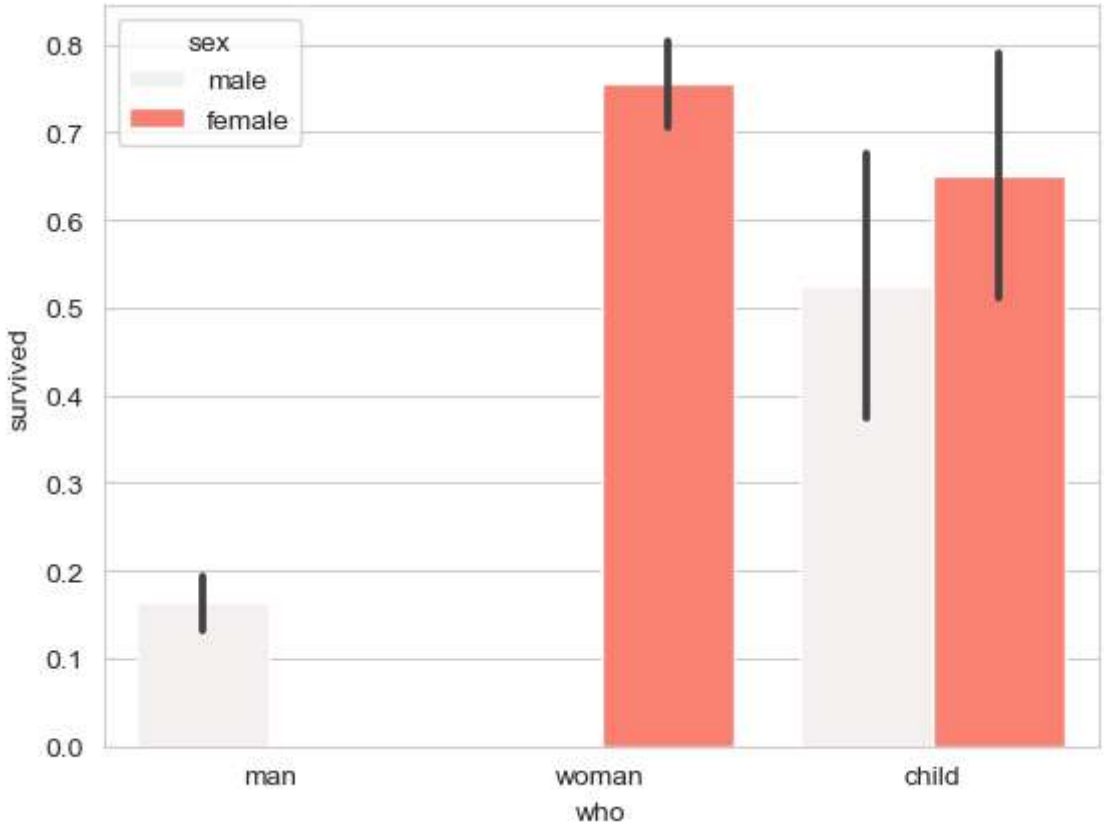
In [47]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset
jahaz=sns.load_dataset("titanic")
sns.barplot(x="who",y="survived",hue="sex",color="red",data=jahaz, estimator="mean")
sns.set_style("whitegrid")
plt.show()
```



In [52]:
```
# import libraires
import seaborn as sns
from numpy import mean
import matplotlib.pyplot as plt

#load dataset
jahaz=sns.load_dataset("titanic")
sns.barplot(x="who",y="survived",hue="sex",color="red",data=jahaz,estimator=mean)
sns.set_style("whitegrid")
plt.show()
```

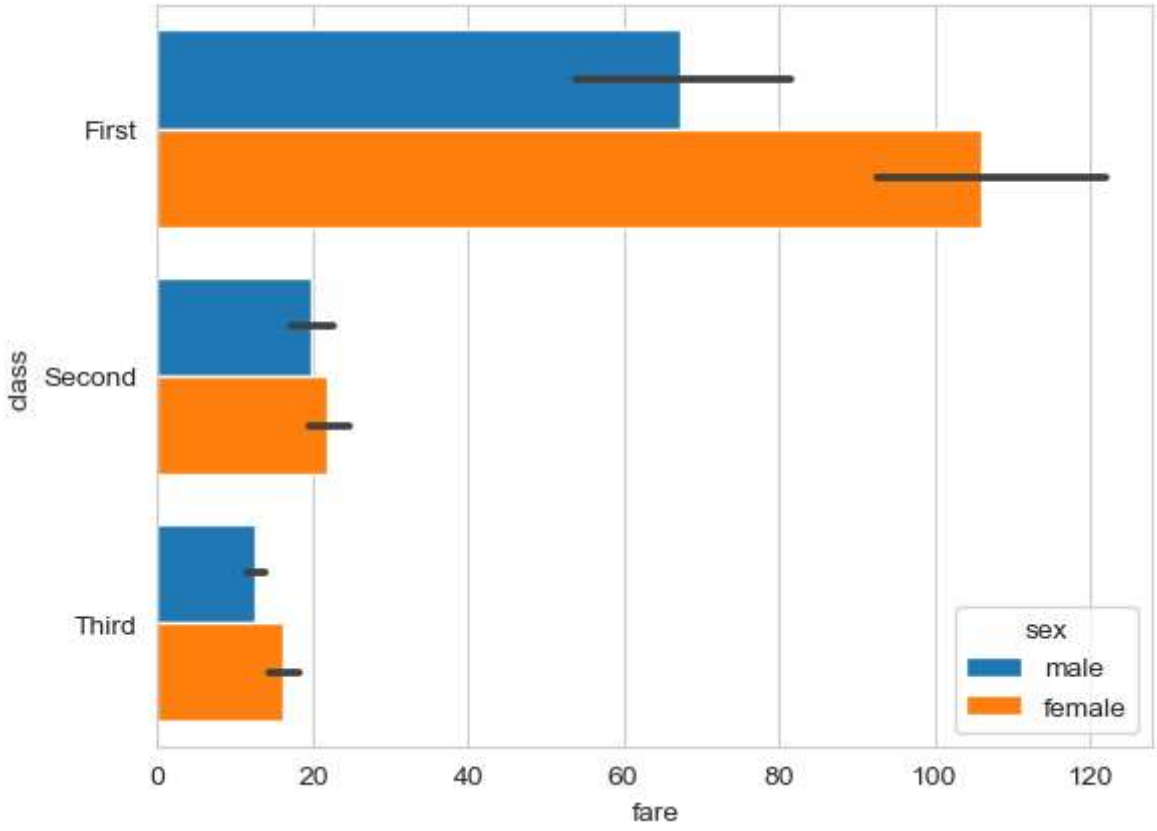


In [56]:
```
# import libraires
import seaborn as sns
import matplotlib.pyplot as plt

#Load dataset
jahaz=sns.load_dataset("titanic")
sns.barplot(x="who",y="survived",hue="sex",color="salmon",data=jahaz,saturation=3)
sns.set_style("whitegrid")
plt.show()
```

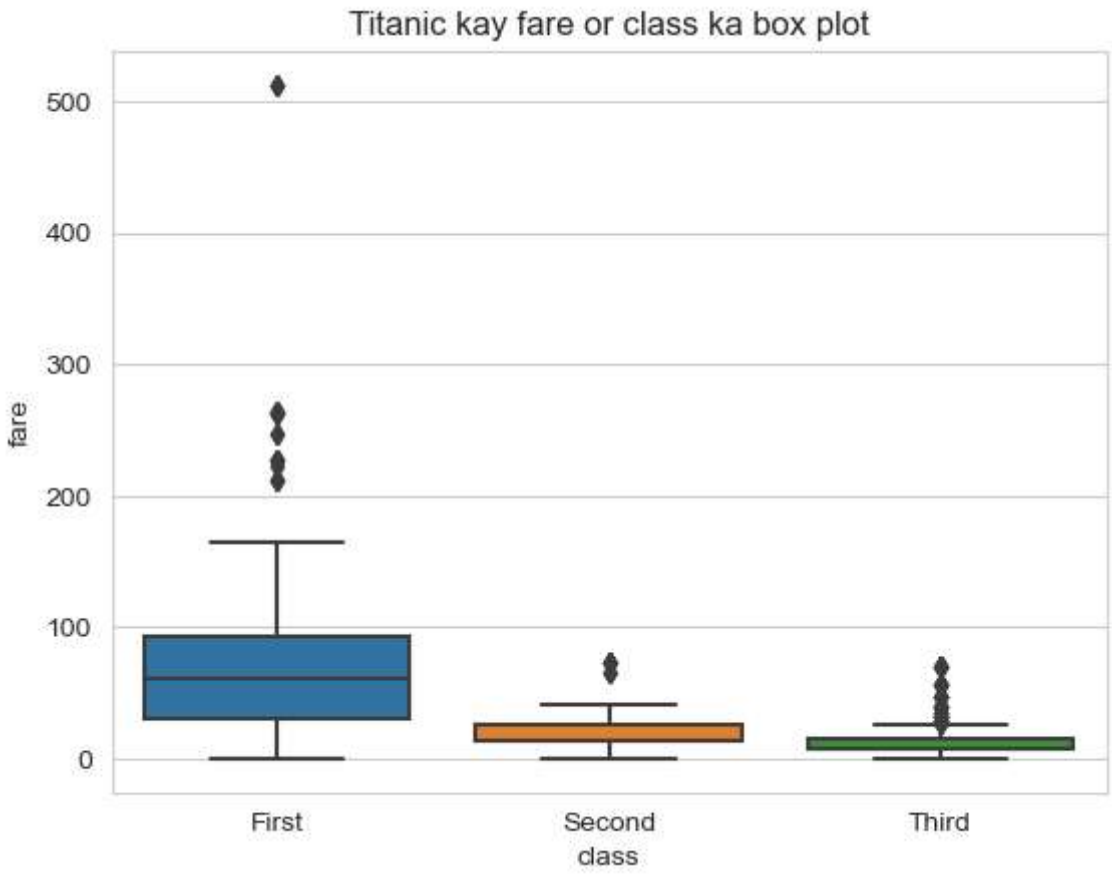


Boxplots

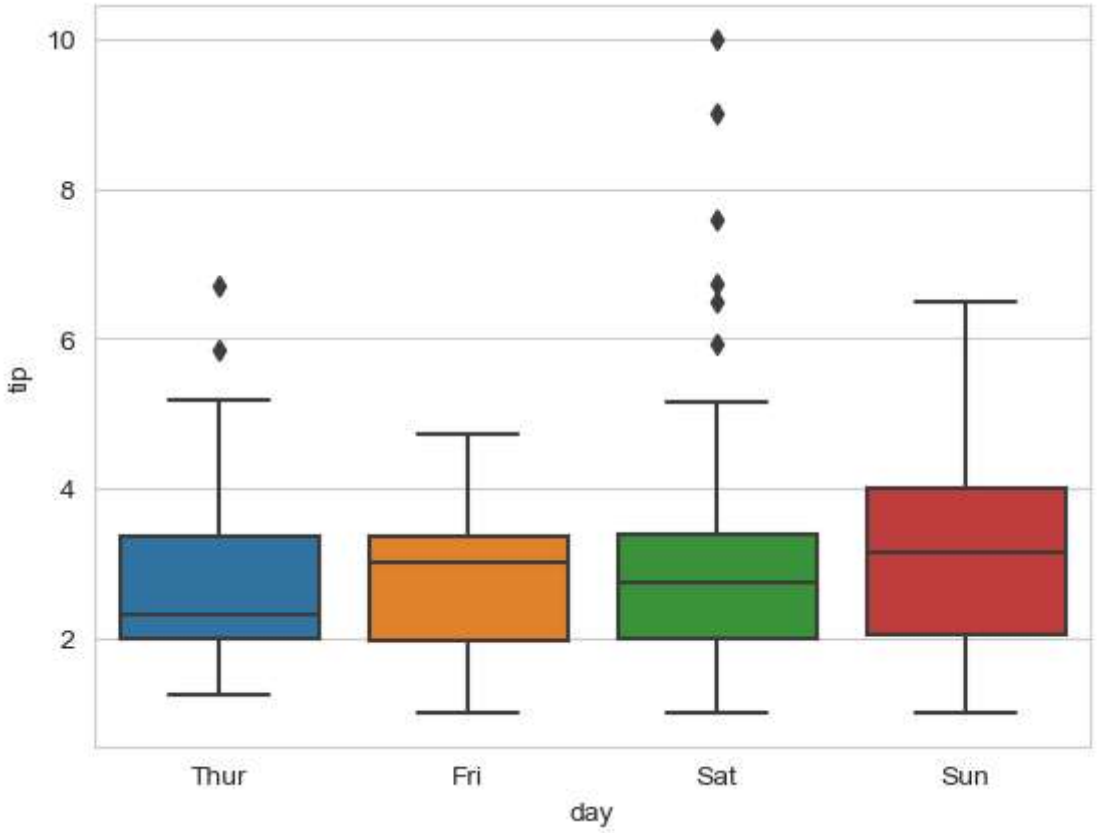
In [66]:
```
#Horizentel plot
# import libraires
import seaborn as sns
from numpy import mean
import matplotlib.pyplot as plt

#Load dataset
jahaz=sns.load_dataset("titanic")
sns.barplot(x="fare",y="class",hue="sex",data=jahaz,saturation=2)
sns.set_style("whitegrid")
plt.show()
```



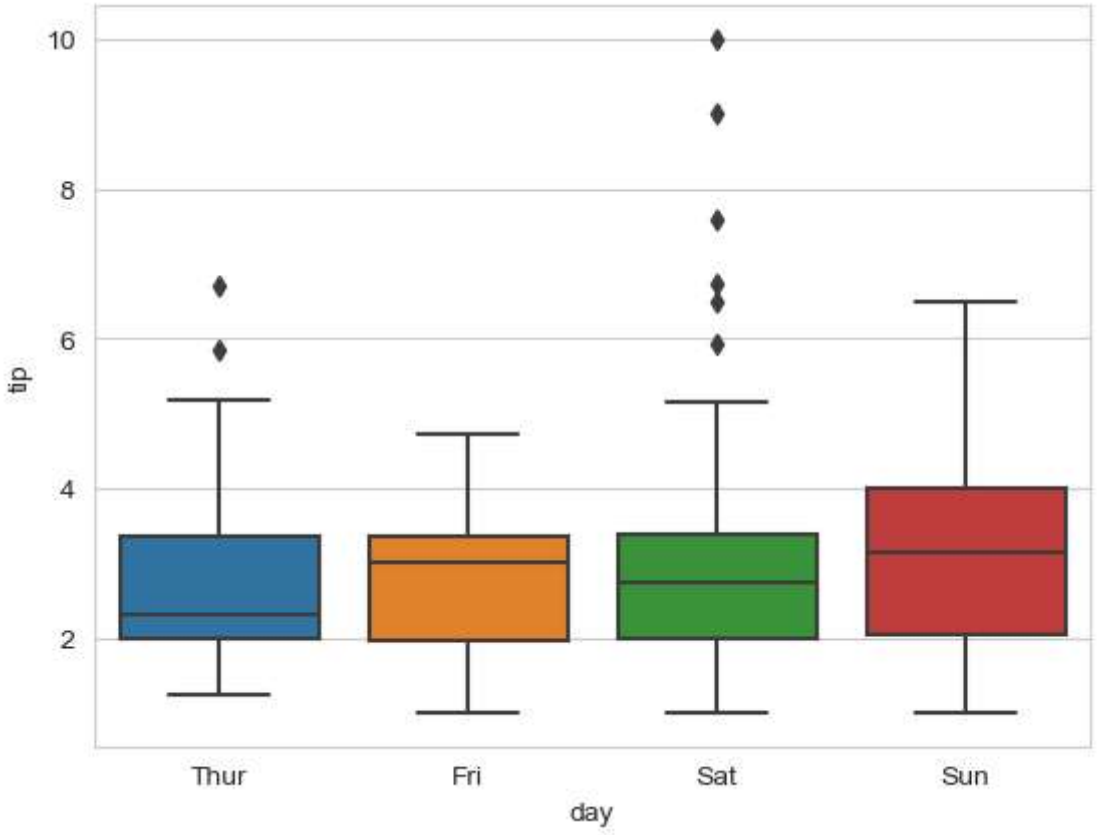
In [69]:
```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_style("whitegrid")
jahaz=sns.load_dataset("titanic")
sns.boxplot(x="class",y="fare",data=jahaz)
plt.title("Titanic kay fare or class ka box plot")
plt.show()
```



In [74]:
```
import seaborn as sns
tips=sns.load_dataset("tips")
sns.boxplot(x="day",y="tip",data=tips)
plt.show()
```



In [77]:
```
# import libraires
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

#load dataset
tips=sns.load_dataset("tips")
sns.boxplot(x="day",y="tip",data=tips)
sns.set_style("whitegrid")
plt.show()
```



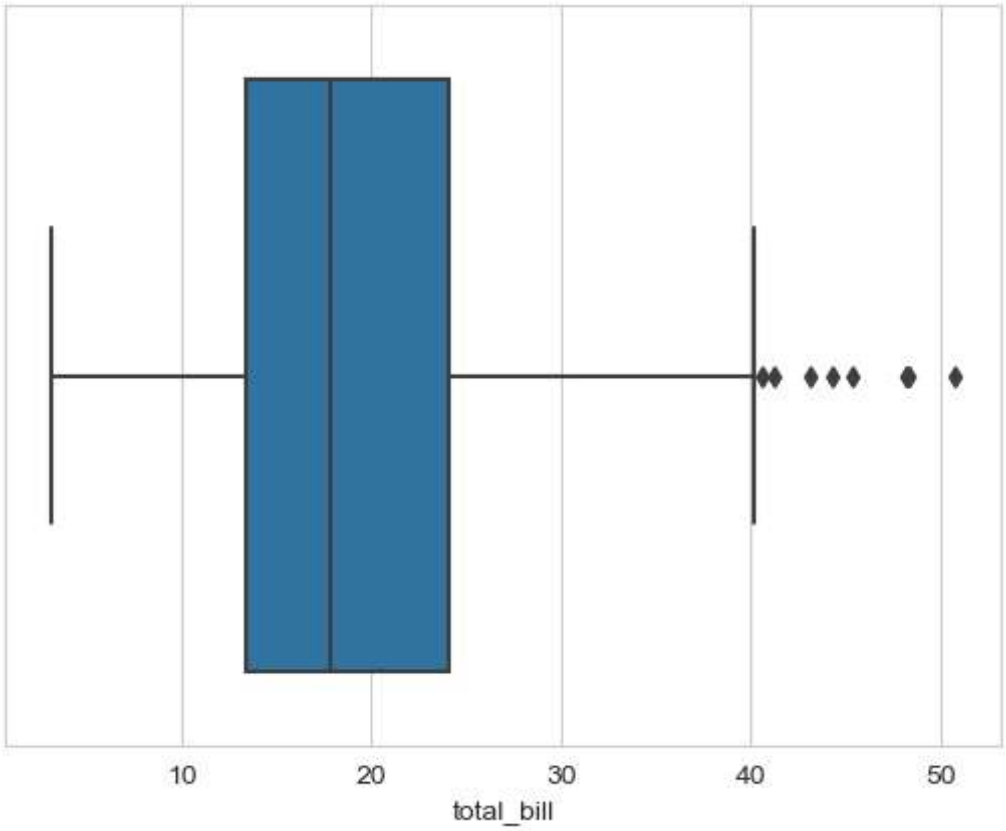
In [78]:
```
# import libraires
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

#load dataset
tips=sns.load_dataset("tips")
tips.describe()
```

Out[78]:

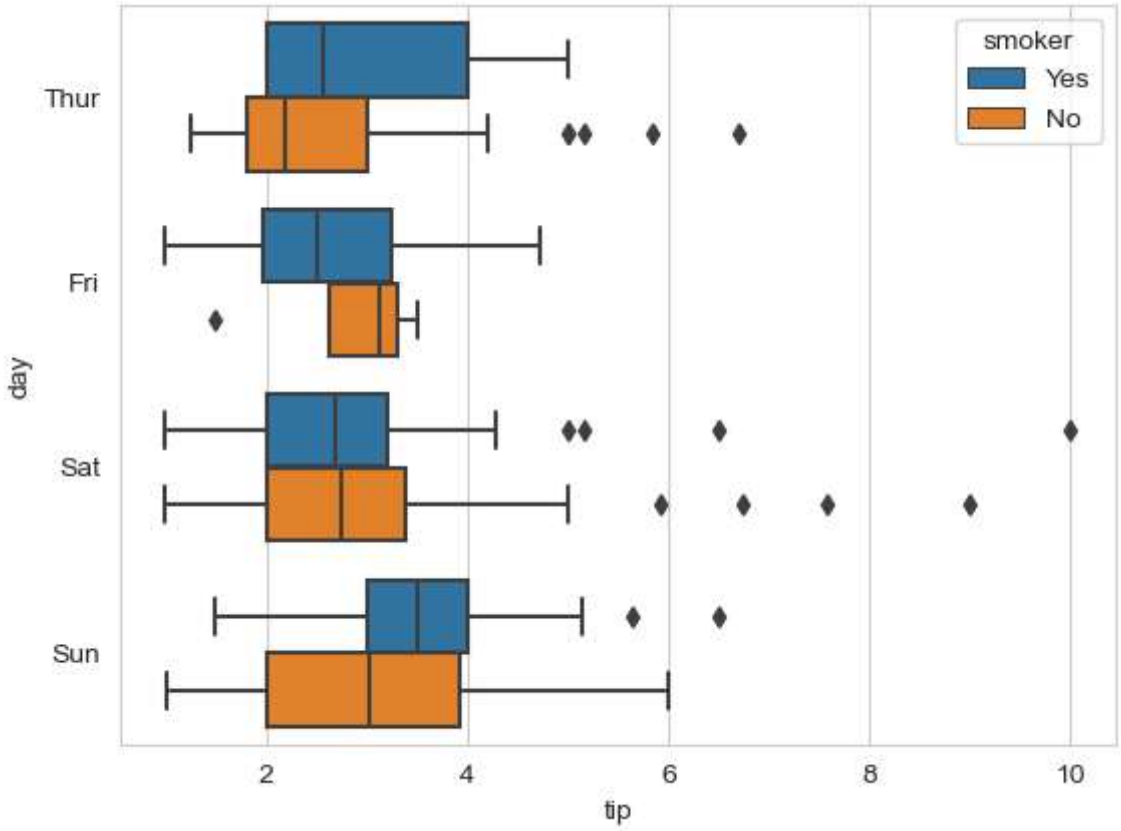
	total_bill	tip	size
count	244.000000	244.000000	244.000000
mean	19.785943	2.998279	2.569672
std	8.902412	1.383638	0.951100
min	3.070000	1.000000	1.000000
25%	13.347500	2.000000	2.000000
50%	17.795000	2.900000	2.000000
75%	24.127500	3.562500	3.000000
max	50.810000	10.000000	6.000000

In [84]:
```
# import libraires
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

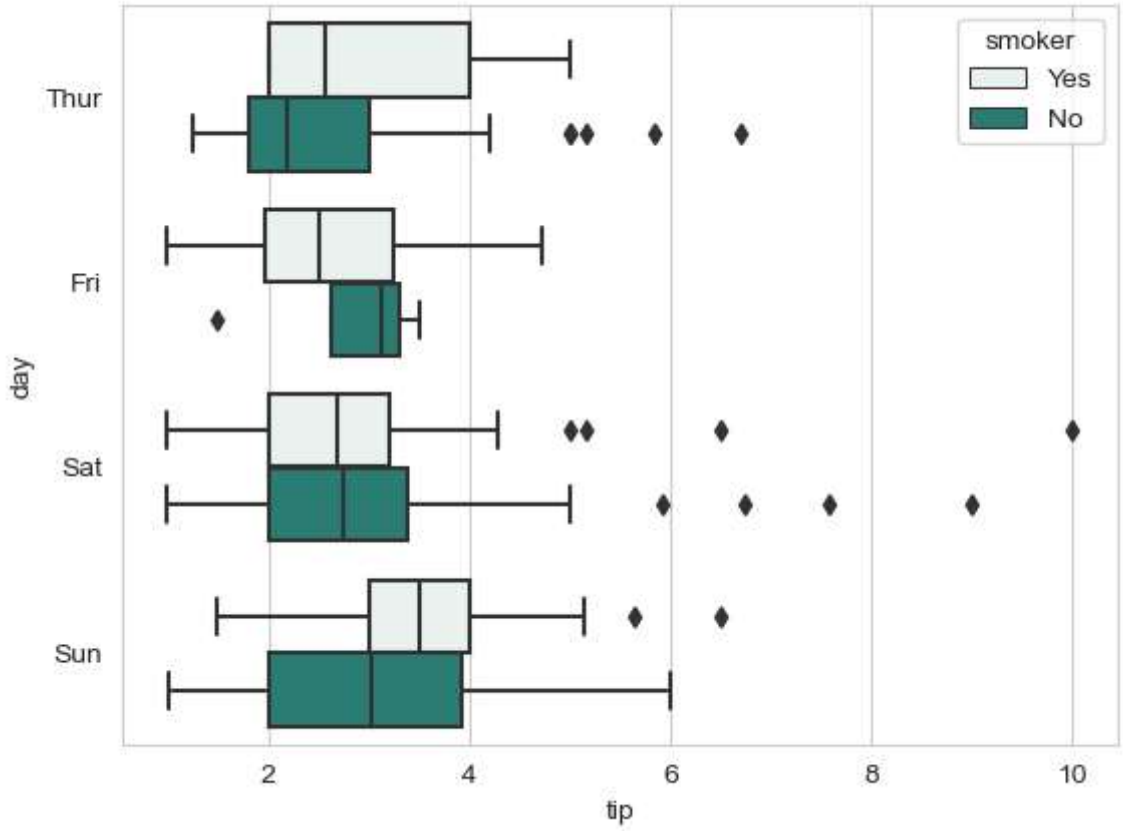
```
#load dataset
tips=sns.load_dataset("tips")
sns.boxplot(x=tips['total_bill'])
plt.show()
```



In [87]:
```
# import libraires
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

#load dataset
tips=sns.load_dataset("tips")
sns.boxplot(x="tip",y="day",data=tips, hue="smoker",dodge=True)
plt.show()
```

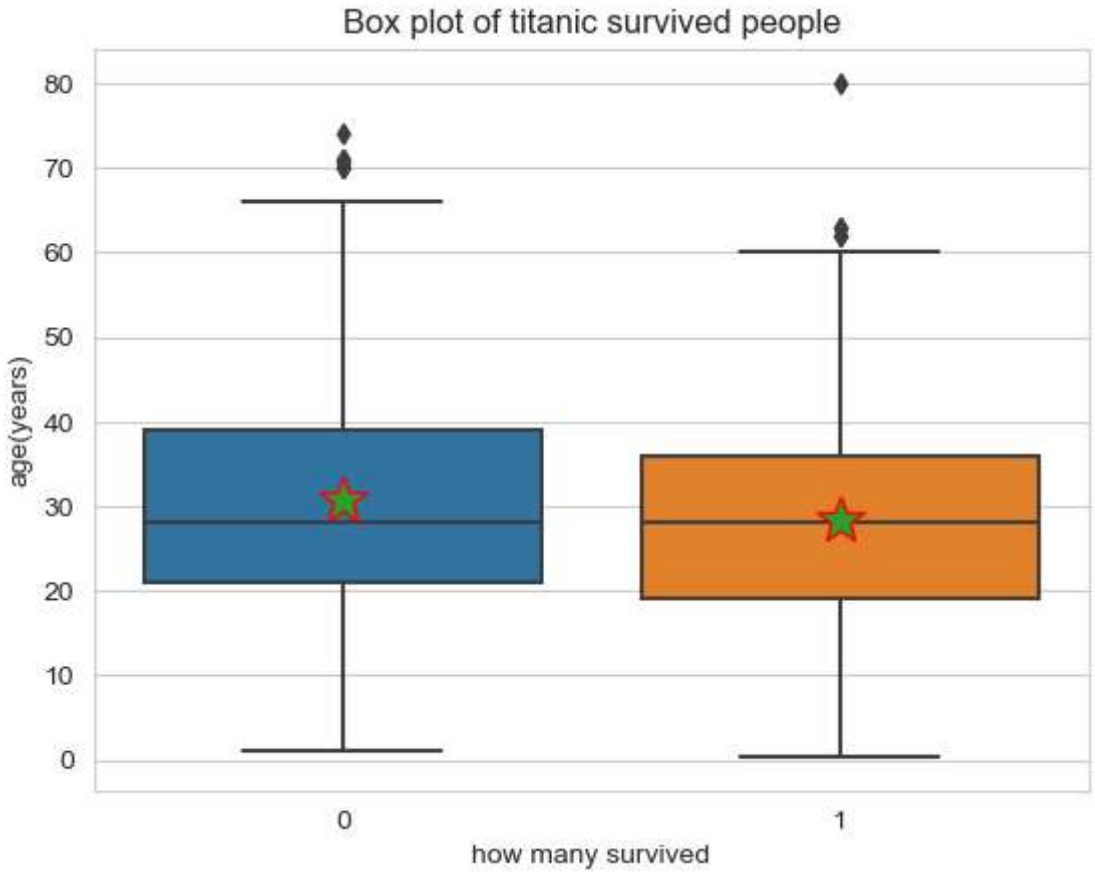


In [90]:
```
# import libraires
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

#load dataset
tips=sns.load_dataset("tips")
sns.boxplot(x="tip",y="day",data=tips, hue="smoker",dodge=True,color="#1e8a7d")
plt.show()
```



In [104…

```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
jahaz=sns.load_dataset("titanic")
sns.boxplot(x="survived",y="age",data=jahaz,showmeans=True,meanprops={"marker":"*", "m
                                                                      "markeredgecolor"

plt.xlabel("how many survived"),
plt.ylabel("age(years)"),
plt.title("Box plot of titanic survived people")
plt.show()
```


Box plot of titanic survived people
80
70
60
50
40
30
20
10
0
age(years)
0
1
how many survived

In [ ]: