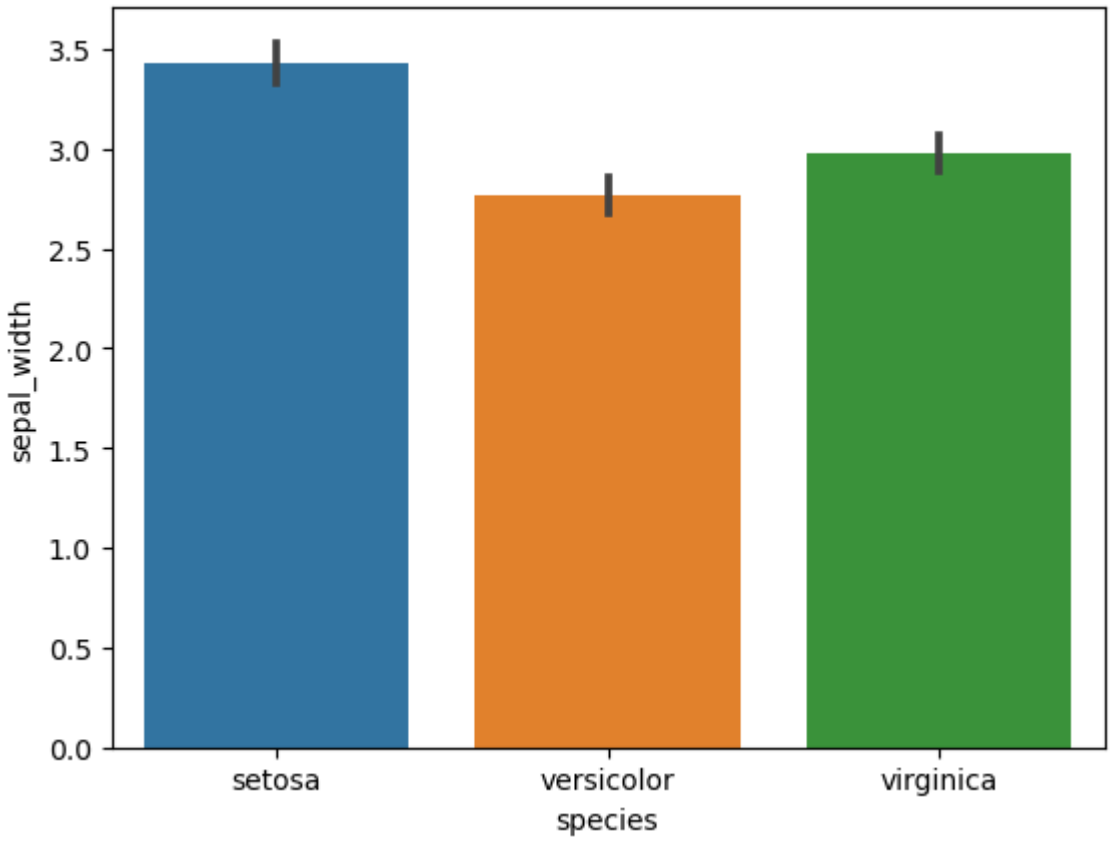
In [1]:
```
import seaborn as sns
import matplotlib.pyplot as plt

flowers=sns.load_dataset("Iris")
flowers

# draw barplot
sns.barplot(x="species", y="sepal_width", data=flowers)

plt.show()
```



In [2]:
```
flowers
```

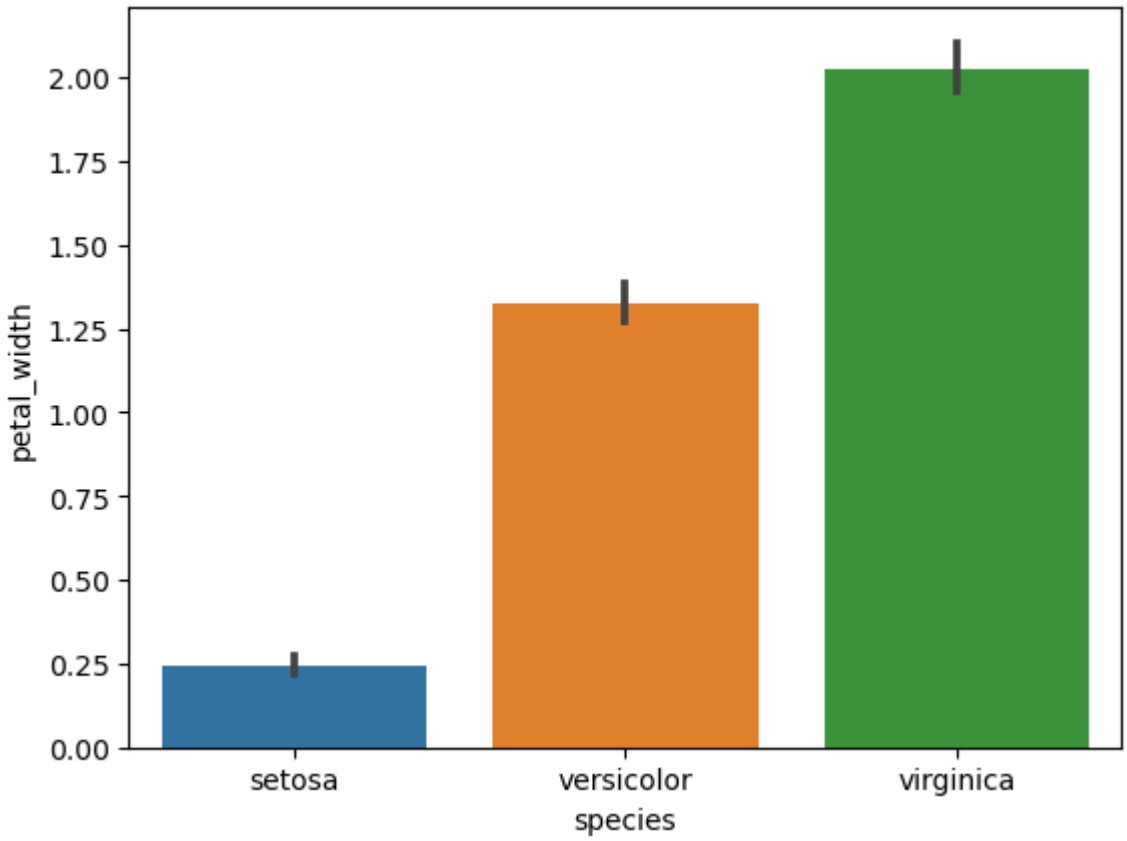
Out[2]:

	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

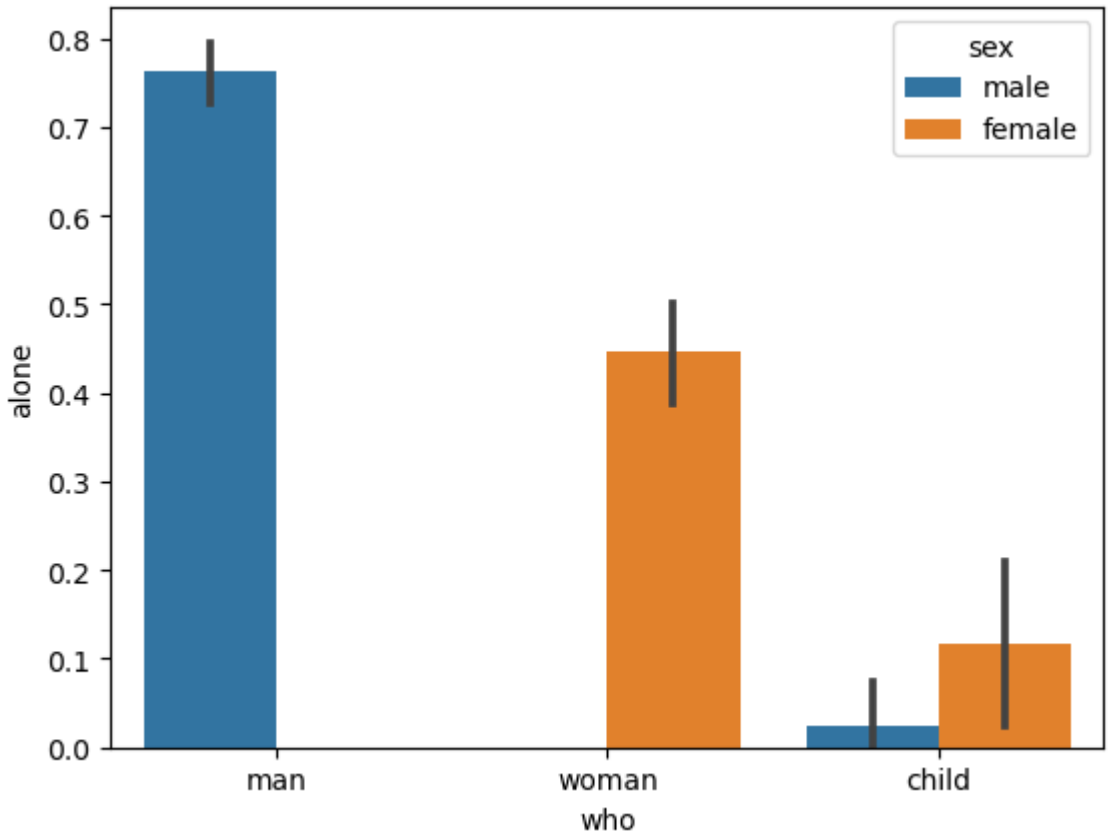
In [3]:

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

flowers=sns.load_dataset("Iris")
flowers

# draw barplot
sns.barplot(x="species", y="petal_width", data=flowers)

plt.show()
```



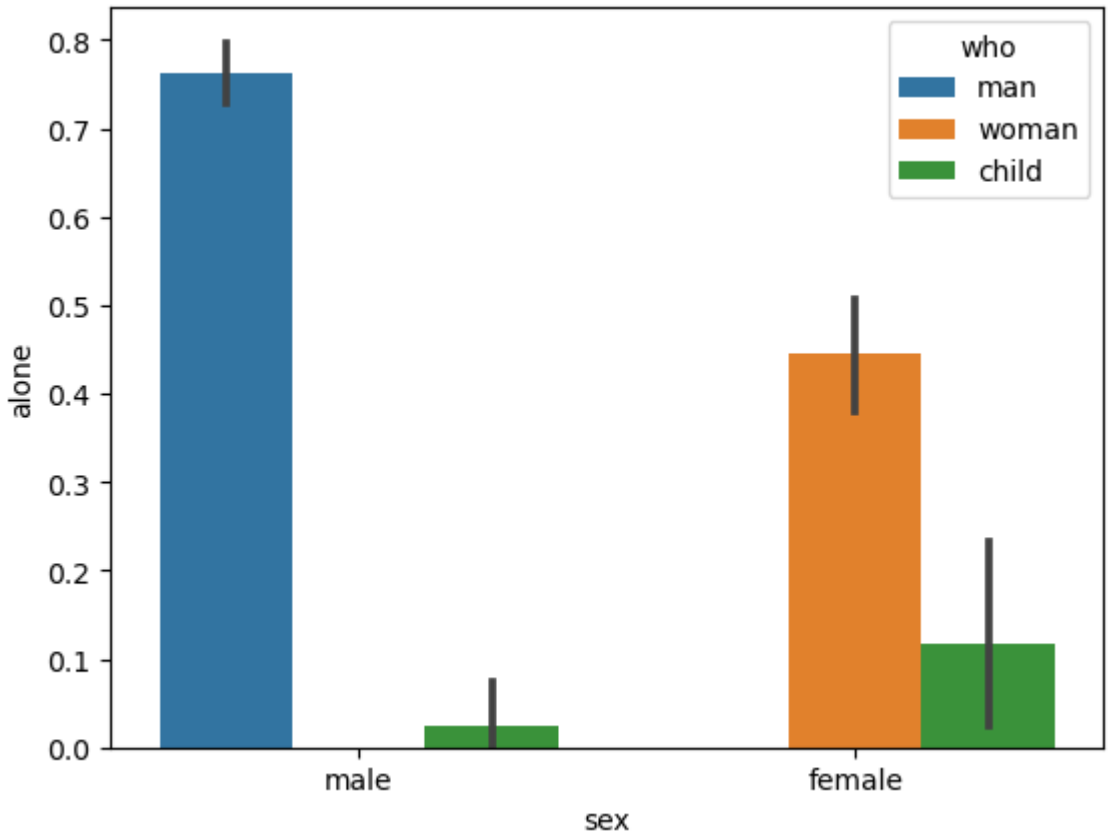
In [4]:

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

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="who", y="alone", hue="sex", data=kashti )
plt.show()
```

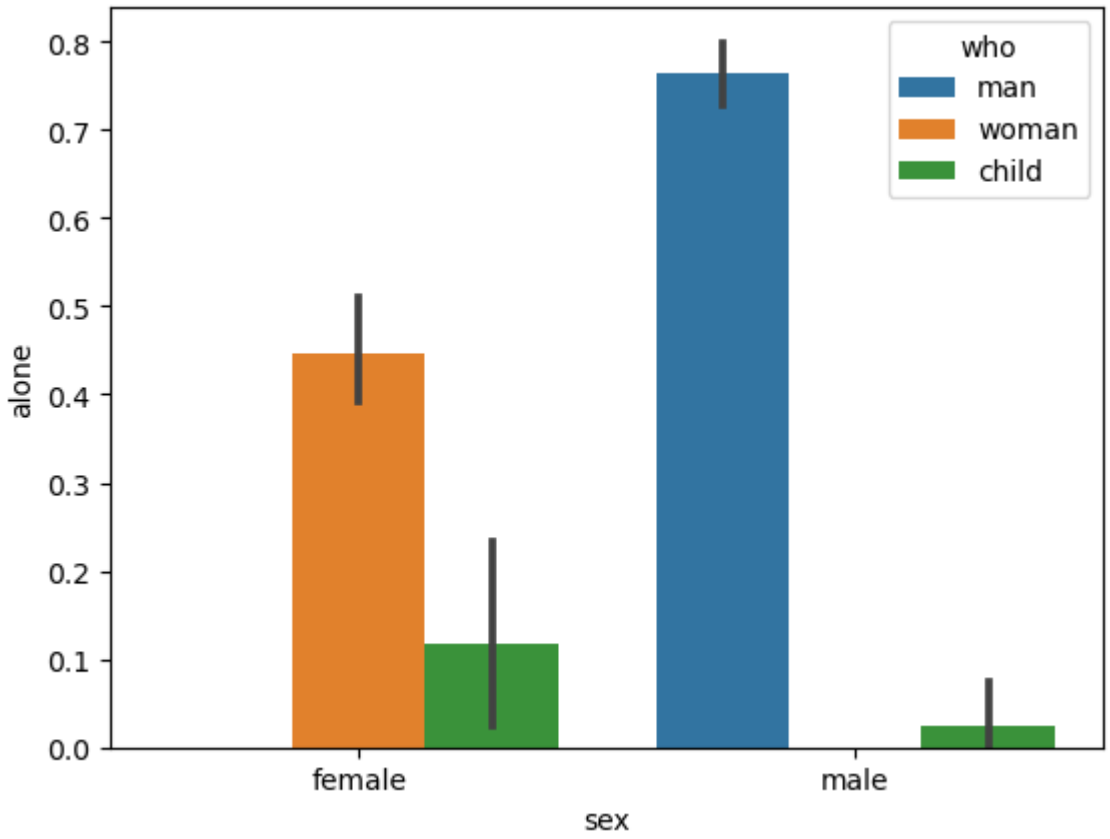


In [5]:

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

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="sex", y="alone", hue="who", data=kashti )
plt.show()
```



In [6]:
```
import seaborn as sns
import matplotlib.pyplot as plt

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="sex", y="alone", hue="who", data=kashti, order=["female", "male"])
plt.show()
```



In [7]:
```
kashti
```

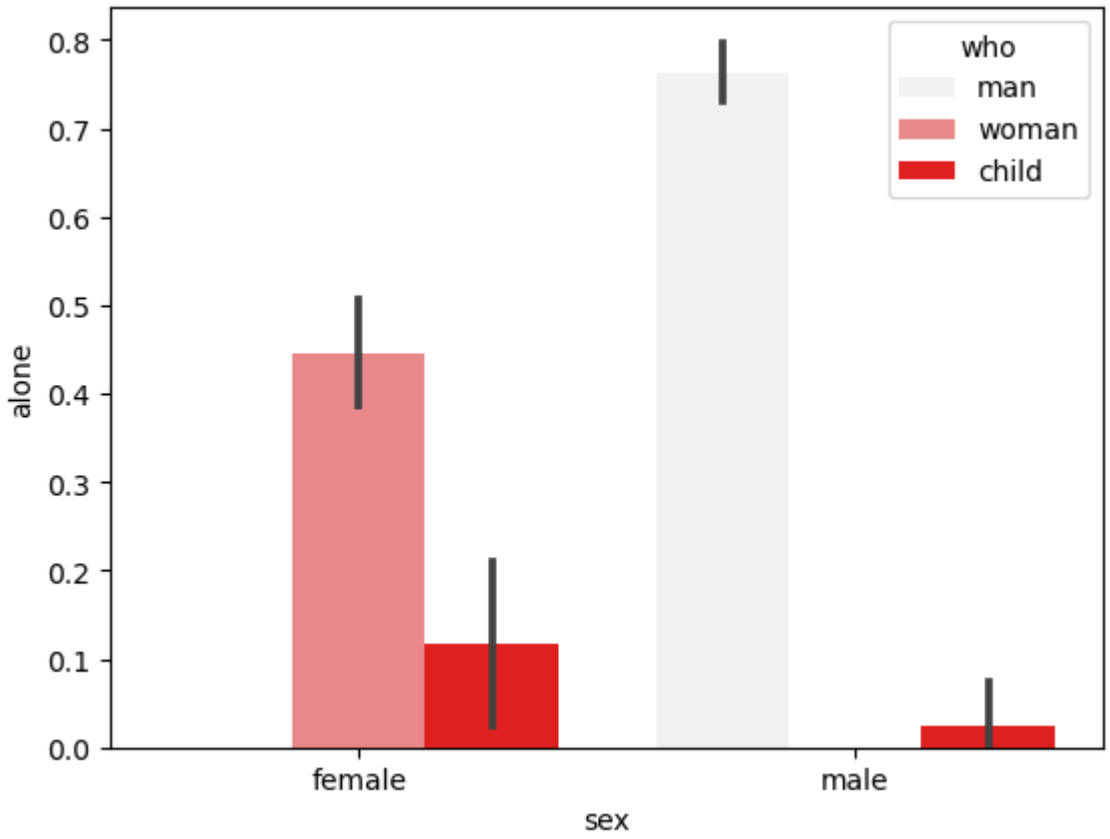
Out[7]:

	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

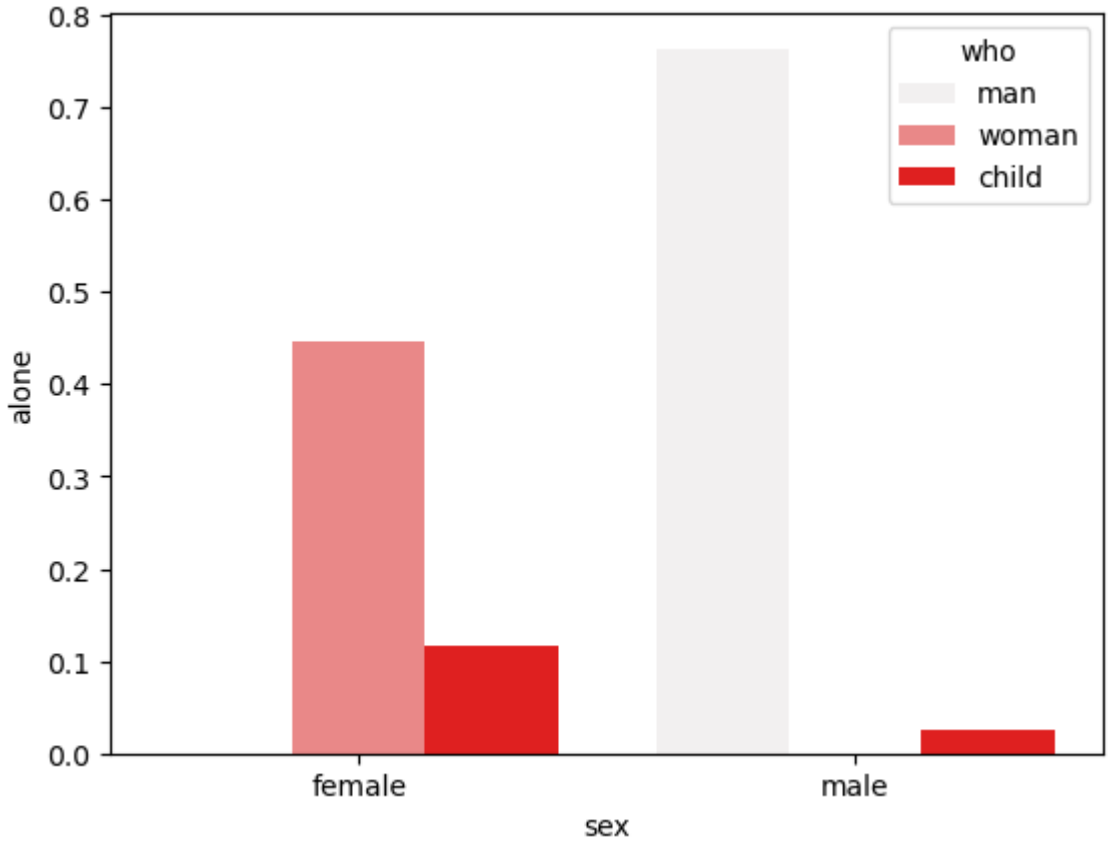
In [8]:
```
import seaborn as sns
import matplotlib.pyplot as plt

kashti=sns.load_dataset("titanic")
```

```
kashti

# draw barplot
sns.barplot(x="sex", y="alone", hue="who", data=kashti, order=["female","male"], color
plt.show()
```

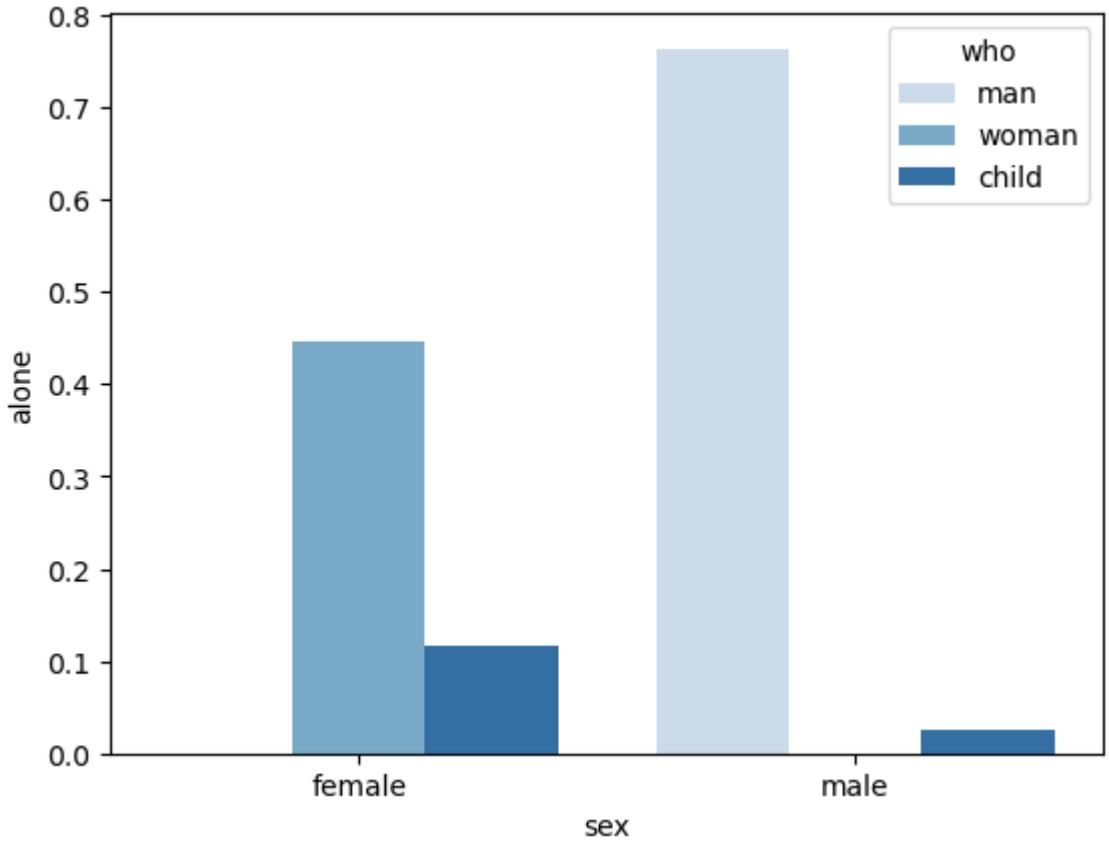


iff you want to remove error bar, ci for confidance interval

In [9]:
```
import seaborn as sns
import matplotlib.pyplot as plt

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="sex", y="alone", hue="who", data=kashti, order=["female","male"], color
plt.show()
```



In [10]:
```
import seaborn as sns
import matplotlib.pyplot as plt


kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="sex", y="alone", hue="who", data=kashti, order=["female","male"], color
            palette='Blues')
plt.show()
```

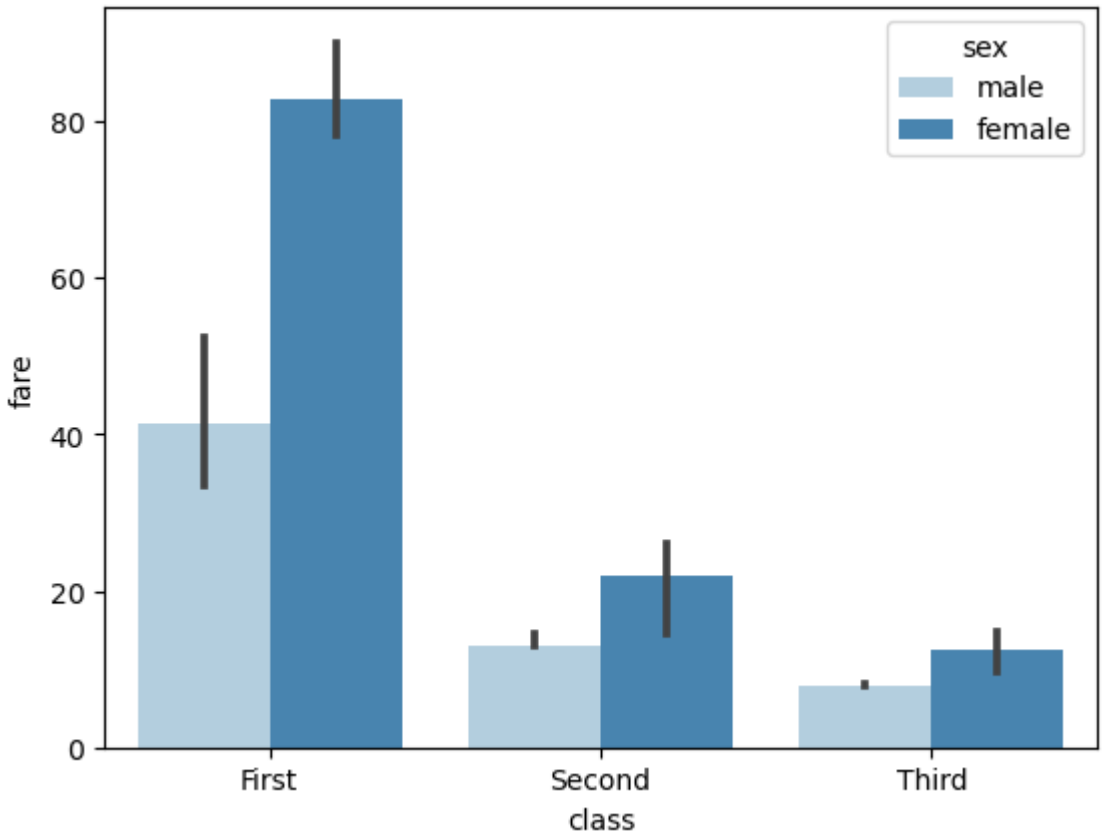


Import numpy median or mean by 2 methods

numpy used for calculations libraries

- import numpy
- from numpy import median

In [11]:
```
import seaborn as sns
import matplotlib.pyplot as plt
from numpy import median

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="class", y="fare", hue="sex", data=kashti, color="red", estimator=median
            palette='Blues')
plt.show()
```



In [12]:
```
import seaborn as sns
import matplotlib.pyplot as plt
import numpy

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="class", y="fare", hue="sex", data=kashti, color="red", estimator=mean,
            palette='Blues')
plt.show()
```

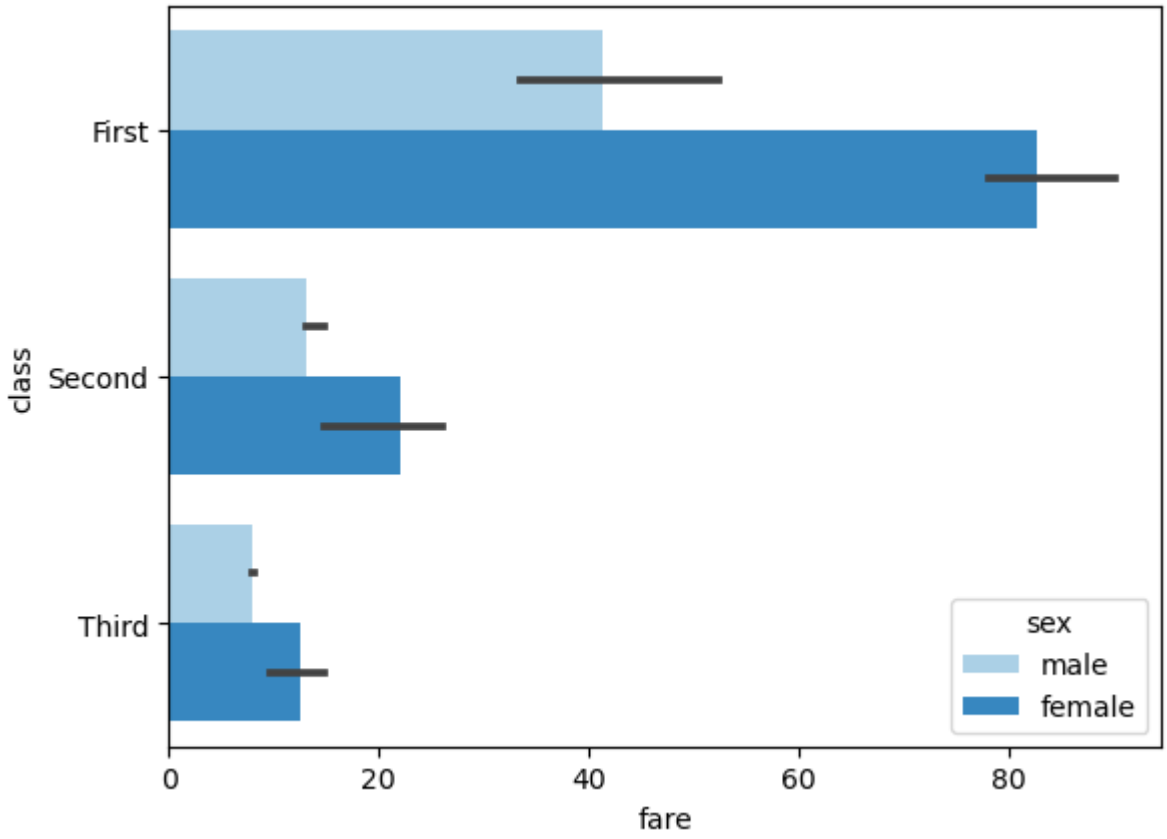
```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[12], line 9
      6 kashti
      8 # draw barplot
----> 9 sns.barplot(x="class", y="fare", hue="sex", data=kashti, color="red", estimat
or=mean,
     10             palette='Blues')
     11 plt.show()

NameError: name 'mean' is not defined
```

In [ ]:
```
# saturation (Means intensity of color)
import seaborn as sns
import matplotlib.pyplot as plt
from numpy import median

kashti=sns.load_dataset("titanic")
kashti
```

```
# draw barplot
sns.barplot(x="class", y="fare", hue="sex", data=kashti, color="red", estimator=median
            palette='Blues')
plt.show()
```

In [19]:

```
# horizontal plot
# saturation (Means intensity of color)
import seaborn as sns
import matplotlib.pyplot as plt
from numpy import median

kashti=sns.load_dataset("titanic")
kashti

# draw barplot
sns.barplot(x="fare", y="class", hue="sex", data=kashti, color="red", estimator=median
            palette='Blues')
plt.show()
```



In [63]:

```
# importing the required library
import seaborn as sns
import matplotlib.pyplot as plt

# read a titanic.csv file
# from seaborn library
kashti=sns.load_dataset("titanic")
kashti

# errcolor is 0 is black, 1 is white, 0-1 is grey
# edgecolor is also between 0-1, black to white,
# edgecolor is called bar edge color
# facecolor is different code mil kar different color bnate hy
```

```
# rgba, red, green,blue, opacity of facecolo

sns.barplot(x="class", y="fare", data=kashti,
            linewidth=3, facecolor=(0.3,0.3,0.8,0.1),
            errcolor="0.3", edgecolor="0.3")
```

Out[63]: <Axes: xlabel='class', ylabel='fare'>