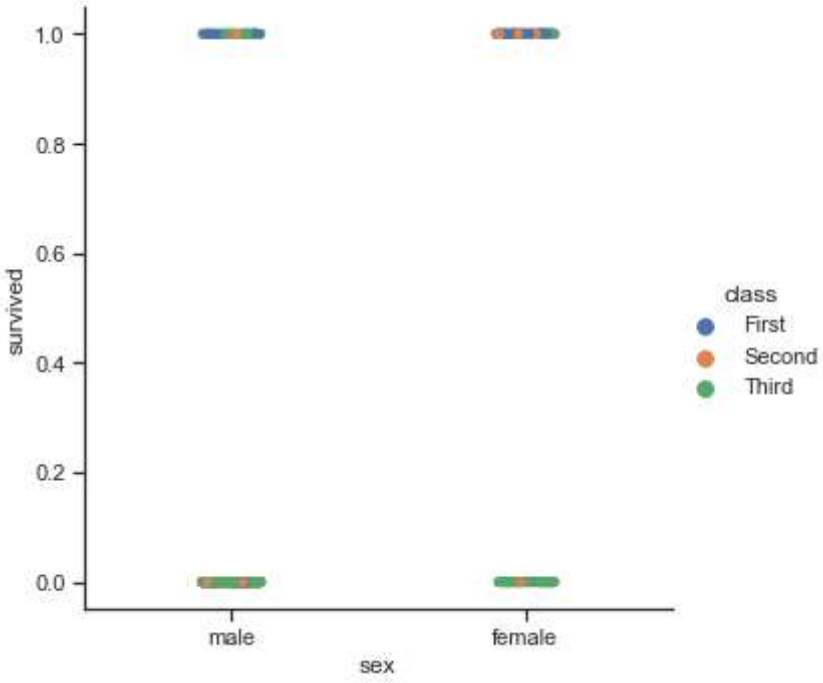
BMI of User and Plots Day4

In [7]:
```
name= input ("what is your name :: ")
w= int(input("weight: "))
h= float(input("height: "))
BMI=float(w/(h**2))
print ("my name is " ,name, "by BMI is ",BMI)
```

```
what is your name :: Asfand
weight: 80
height: 7.8
my name is  Asfand by BMI is  1.314924391847469
```

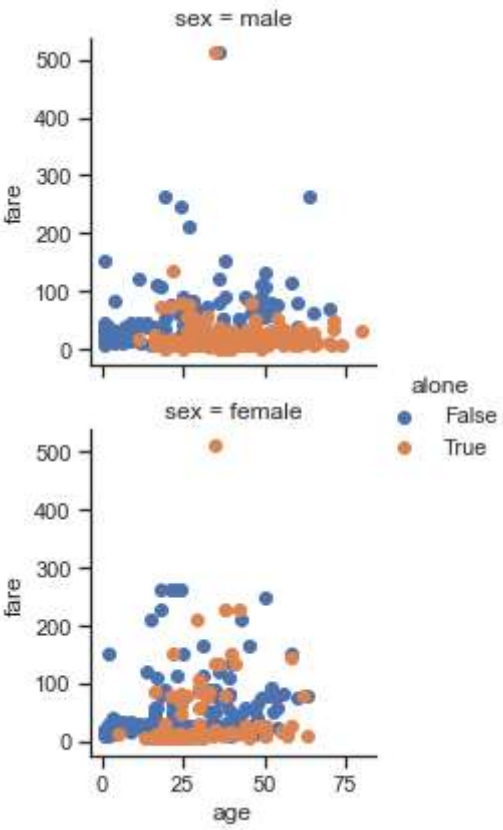
In [22]:
```
# titanic plot
import seaborn as sea
import matplotlib.pyplot as plt
sea.set_theme(style="ticks",color_codes=True)
ship = sea.load_dataset("titanic")

print(ship)
sas=sea.catplot(x="sex",y="survived",hue="class",data=ship)
```

```
     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 [10]:

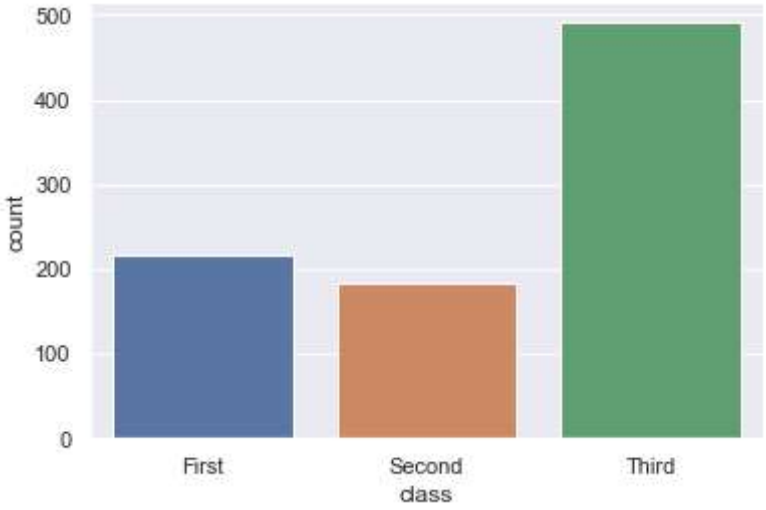
```
import seaborn as sea
import matplotlib.pyplot as plt
sea.set_theme(style="ticks",color_codes=True)
titanic = sea.load_dataset("titanic")
g=sea.FacetGrid(titanic,row="sex",hue="alone")
g=(g.map(plt.scatter,"age","fare").add_legend())
plt.show()
```



In [11]:

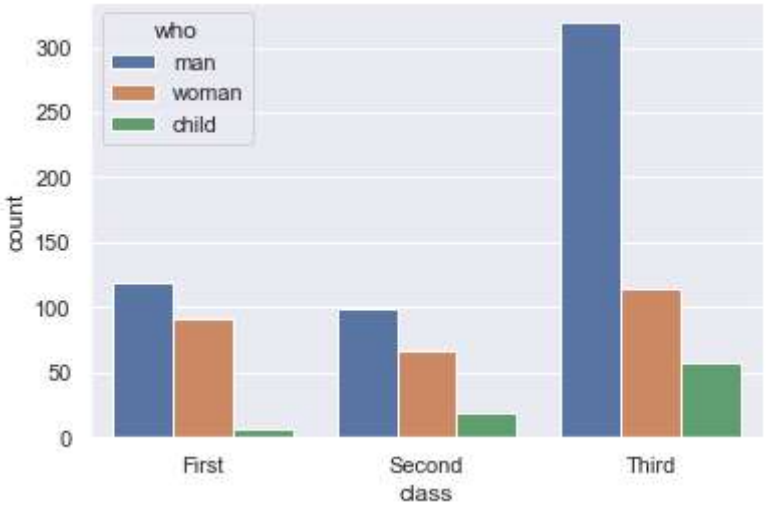
```
import seaborn as sns
```

```
sns.set_theme(style="darkgrid")
titanic = sns.load_dataset("titanic")
ax = sns.countplot(x="class", data=titanic)
```



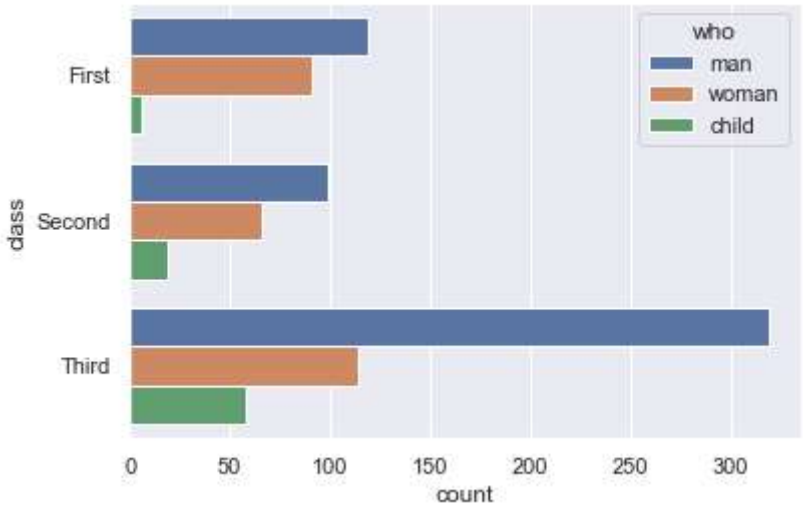
In [12]:

```
ax = sns.countplot(x="class", hue="who", data=titanic)
```

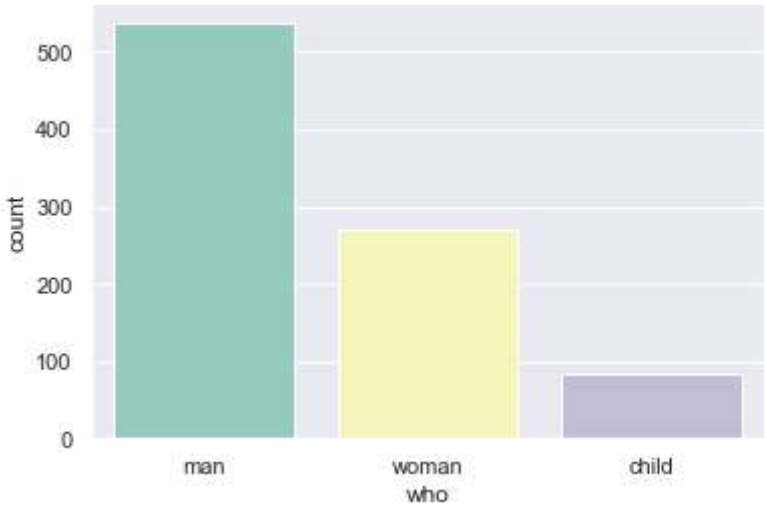


In [13]:

```
ax = sns.countplot(y="class", hue="who", data=titanic)
```



In [14]:
```
ax = sns.countplot(x="who", data=titanic, palette="Set3")
```



In [15]:
```
ax = sns.countplot(x="who", data=titanic,
                   facecolor=(0, 0, 0, 0),
                   linewidth=5,
                   edgecolor=sns.color_palette("dark", 3))
```