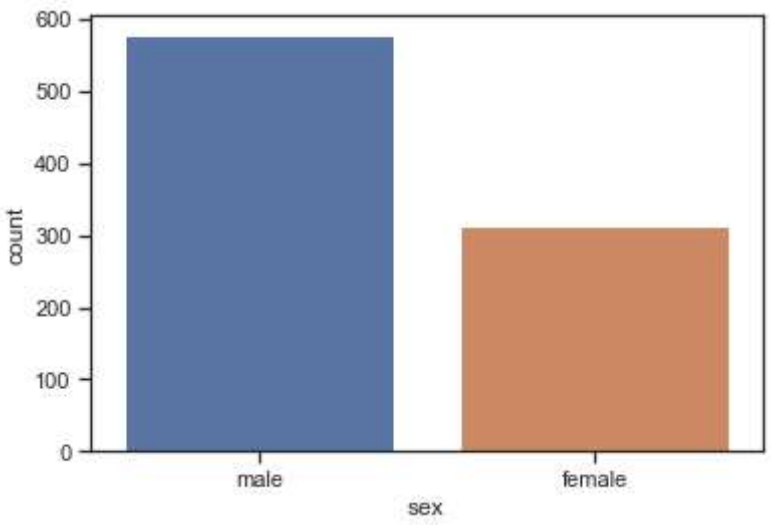
BMI and Data Visualization

In [10]:
```
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: 6
height: 1.2
my name is  asfand by BMI is  4.166666666666667
```

Count Plot For 1 variable

In [9]:
```
# titanic plot
import seaborn as sea
import matplotlib.pyplot as plt
sea.set_theme(style="ticks",color_codes=True)
titanic = sea.load_dataset("titanic")
p = sea.countplot(x = "sex",  data = titanic) # count function will count the intensity
plt.show()
```

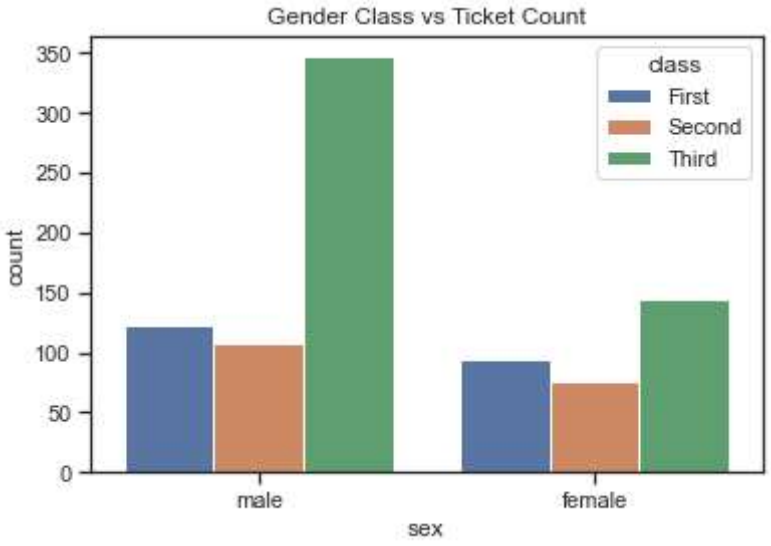


Count Plot For 2 variable

- This will show for male and female wich class got how many tickets
- how to title the plot
  - you have to use variable of the plot statement for this

In [14]:
```
# titanic plot
import seaborn as sea
import matplotlib.pyplot as plt
sea.set_theme(style="ticks",color_codes=True)
titanic = sea.load_dataset("titanic")
p = sea.countplot(x = "sex",  data = titanic,hue = "class")
```

```
# Adding titles
p.set_title("Gender Class vs Ticket Count")
plt.show()
```



Data csv analysis

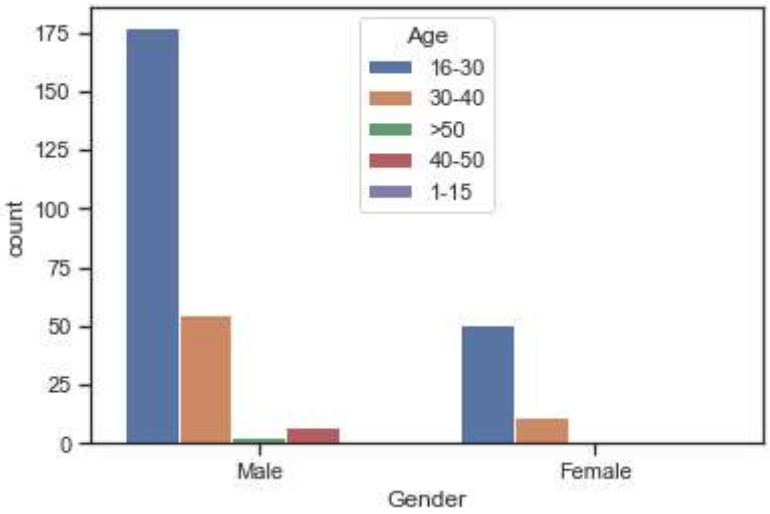
- make a CSV of the file you want to load
- then upload it to the directory where ever
- now make .py or jupyter note book in that directory where you are placing the file
- import pandas as p
- use pandas to read the files

In [17]:

```
import pandas as p
import seaborn as sns
import matplotlib.pyplot as pt
#Step 1:: chilla file to load
d=p.read_csv("chilla_data_viz_1.csv.csv")
print (d)

#Step 2:: set the theme
sns.set_theme(style="ticks",color_codes=True)

#Step 3:: not plot the count plot
pp=sns.countplot (x="Gender",hue = "Age",data = d)
pt.show()
```

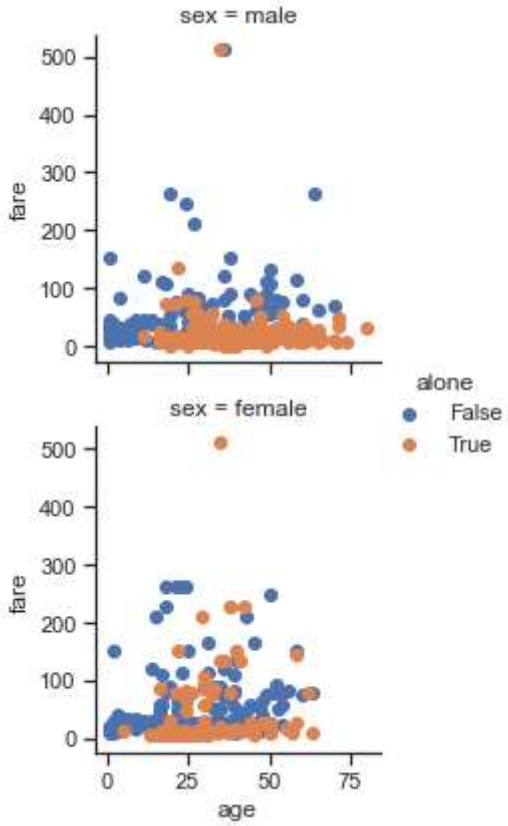
```
             Timestamp  Gender    Age  Location Time of class (pm)  \
0    1/3/2022 19:09:29    Male  16-30  Pakistan              10:30
1    1/3/2022 19:09:33    Male  16-30  Pakistan              10:00
2    1/3/2022 19:09:33    Male  16-30  Pakistan              10:00
3    1/3/2022 19:09:33    Male  30-40  Pakistan               9:30
4    1/3/2022 19:09:34    Male  16-30      East               9:30
..                 ...     ...    ...       ...                ...
301  1/3/2022 19:11:51    Male  16-30  Pakistan               9:30
302  1/3/2022 19:11:52    Male  16-30  Pakistan              10:30
303  1/3/2022 19:11:53    Male  16-30  Pakistan              10:00
304  1/3/2022 19:11:54  Female  16-30  Pakistan              10:30
305  1/3/2022 19:11:55    Male  16-30  Pakistan              10:30
```

```
     Duration (min)
0                60
1                60
2                30
3                30
4                60
..              ...
301              30
302              45
303              60
304              60
305              45

[306 rows x 6 columns]
```

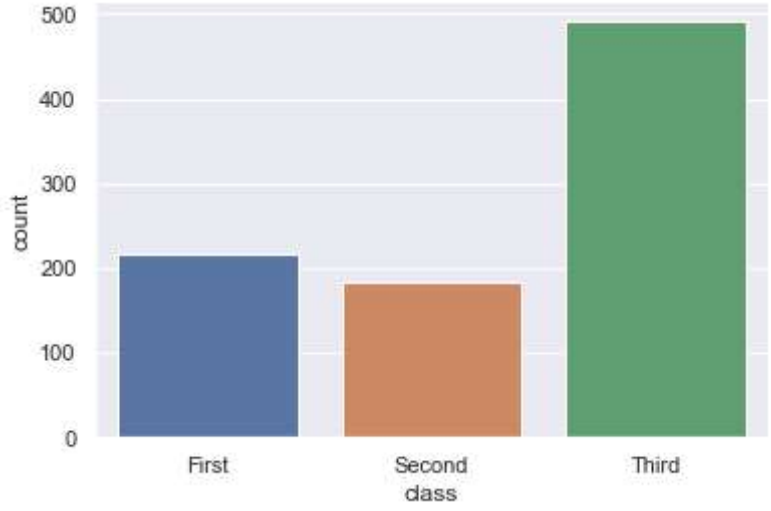


In [14]:

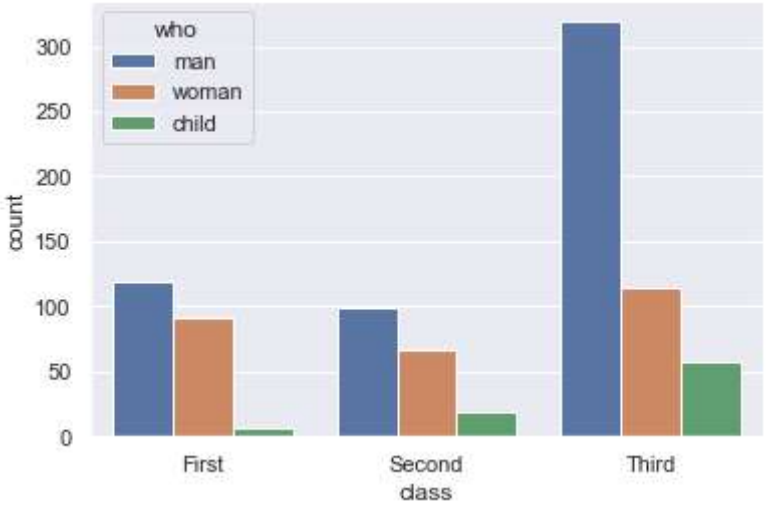
```
import seaborn as sea
import matplotlib.pyplot as plt
sea.set_theme(style="ticks",color_codes=True)
titanic = sea.load_dataset("titanic")
g=sea.FacetGrid(titanic,row="sex",hue="alone")
g=(g.map(plt.scatter,"age","fare").add_legend())
plt.show()
```



In [1]:
```
import seaborn as sns
sns.set_theme(style="darkgrid")
titanic = sns.load_dataset("titanic")
ax = sns.countplot(x="class", data=titanic)
```



In [3]:
```
ax = sns.countplot(x="class", hue="who", data=titanic)
```



In [4]:
```
ax = sns.countplot(x="who", data=titanic, palette="Set3")
```