Day02 - Simple Calculator for BMI & Data Visualization

01_Get Height and weight from the user as a input

In [1]:
```
Height=input("whats is your height in meter? ")
Weight=input("whats is your weight in kg? ")
Height=float(Height)
Weight=float(Weight)
BMI=Weight/Height**2
print("My name is Arsalan.", "my BMI is",BMI)
```

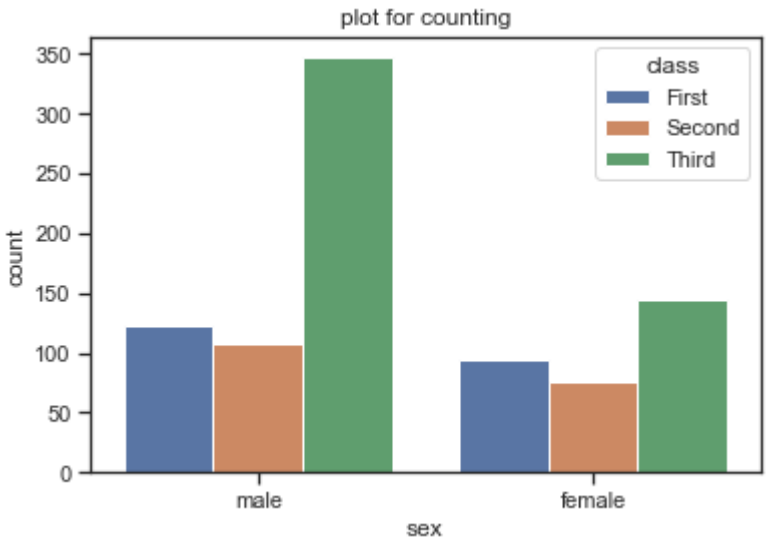
```
whats is your height in meter? 1.76
whats is your weight in kg? 74
My name is Arsalan. my BMI is 23.889462809917354
```

02_ Data Visualzation Basic Example

Use Seaborn and matplotlib to plot titanic data (built-in data in seaborn library)

In [2]:
```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="ticks", color_codes="true")

titanic=sns.load_dataset("titanic")
# p1=sns.catplot(x="sex",y="survived", hue="class", kind="bar" , data=titanic)
p1=sns.countplot(x='sex',data=titanic, hue='class' )
p1.set_title("plot for counting")
```

Out[2]:
```
Text(0.5, 1.0, 'plot for counting')
```



03_ Scatter Plot example

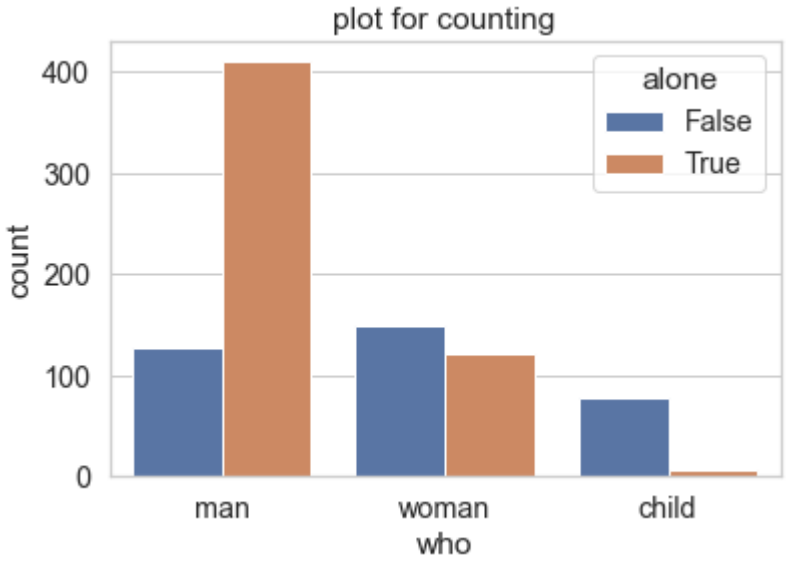
In [3]:
```
#Scatter Plot example
```

```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="darkgrid", color_codes="true")

titanic=sns.load_dataset("titanic")
h=sns.FacetGrid(titanic,row="sex" ,hue="alone")
h=(h.map(plt.scatter, "age", "fare").add_legend())
plt.show()
```

04_Final plot based on the Titanic Data

In [4]:

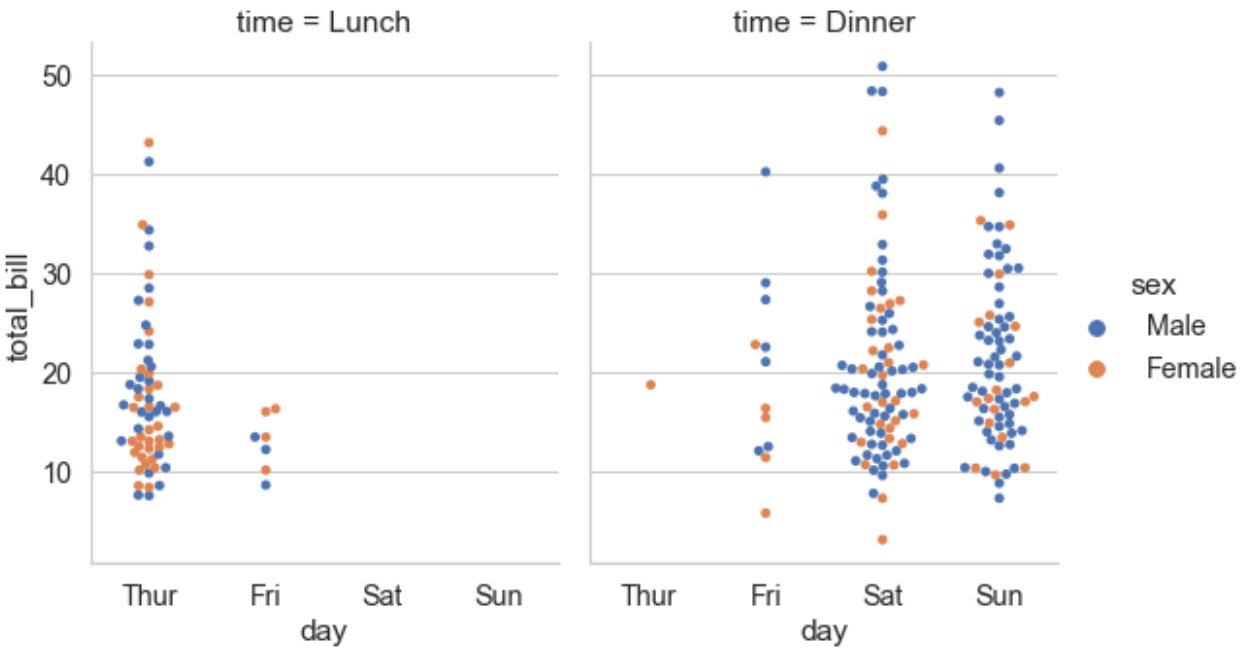
```
#Use Seaborn and matplotlib to plot titanic data (built-in data in seaborn library)
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="whitegrid", color_codes="true")
#sns.set_context("talk")
sns.set_context("notebook", font_scale=1.3, rc={"lines.linewidth":2.5})

titanic=sns.load_dataset("titanic")
# print (titanic)
p1=sns.countplot(x='who',data=titanic, hue='alone' )
p1.set_title("plot for counting")
plt.show()
```



05_Example from seaborn bulitin dataset (tips)

In [5]:
```
import seaborn as sns
import matplotlib.pyplot as plt
tips = sns.load_dataset("tips")
#print(tips)
sns.catplot(x="day", y="total_bill", hue="sex",
            col="time", aspect=.8,
            kind="swarm", data=tips)
```

Out[5]:
```
<seaborn.axisgrid.FacetGrid at 0x16d6c40a790>
```



In [ ]:
```
```