Drawing Plot on base of data_viz

In [ ]:
```
# import liberay of seaborn, matplotlib, pandas and numpy
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
```

Load data set of data_viz.csv

In [ ]:
```
data_viz = pd.read_csv("data_viz.csv")
data_viz.head()
```

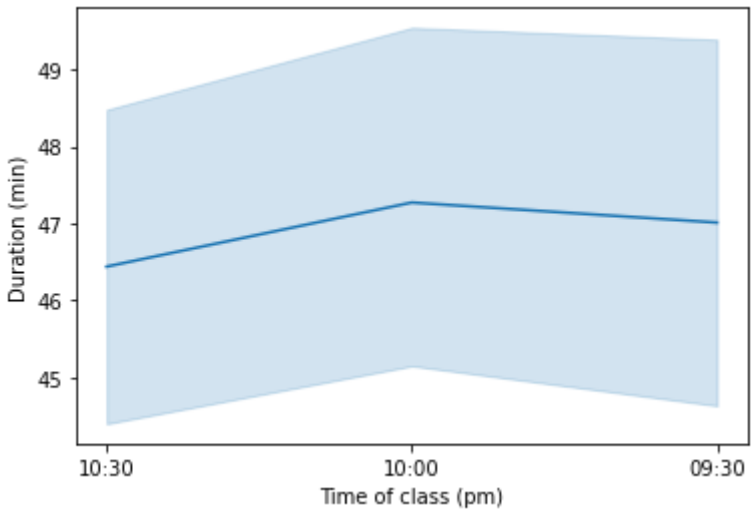
Out[ ]:

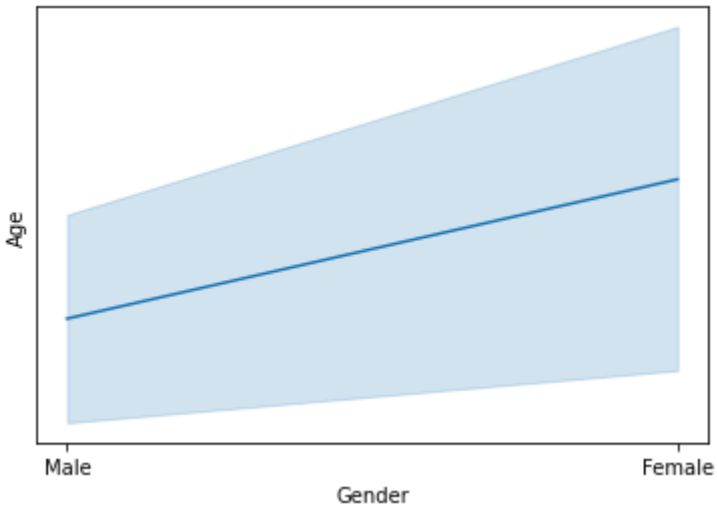
	Timestamp	Gender	Age	Location	Time of class (pm)	Duration (min)
0	1/3/2022 19:09:29	Male	16-30	Pakistan	10:30	60
1	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	60
2	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	30
3	1/3/2022 19:09:33	Male	30-40	Pakistan	09:30	30
4	1/3/2022 19:09:34	Male	16-30	East	09:30	60

1. For Line Plot

Not so much usable as no such continues data

In [ ]:
```
sns.lineplot(x = 'Time of class (pm)', y= 'Duration (min)', data= data_viz) # this p
plt.show()
sns.lineplot(x = 'Gender', y= 'Age', data= data_viz) # this plot always b/w two numi
plt.show()
```





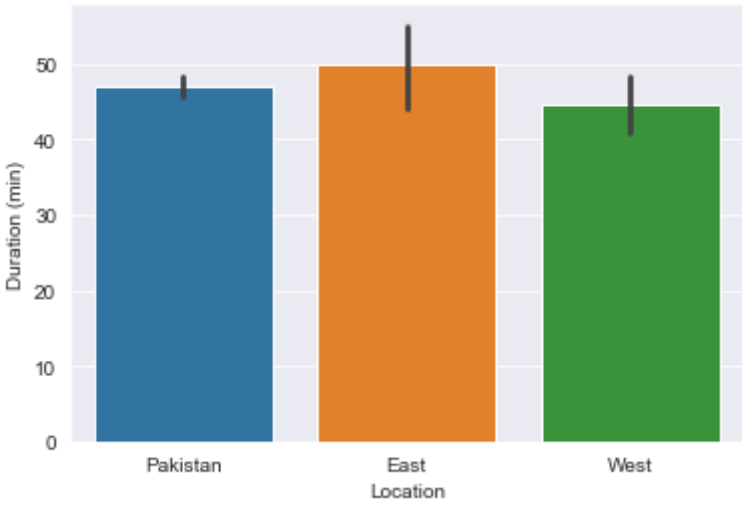
2. For Bar Plot

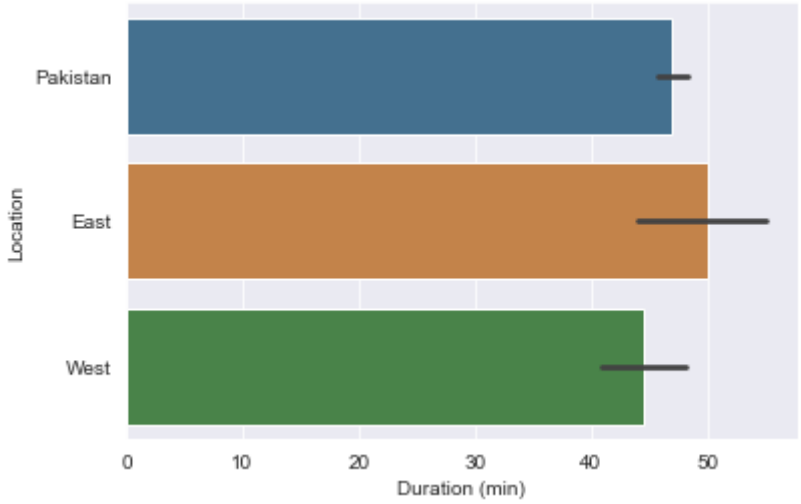
In [ ]:
```
# Load data Set
data_viz = pd.read_csv("data_viz.csv")
data_viz.head()
```

Out[ ]:

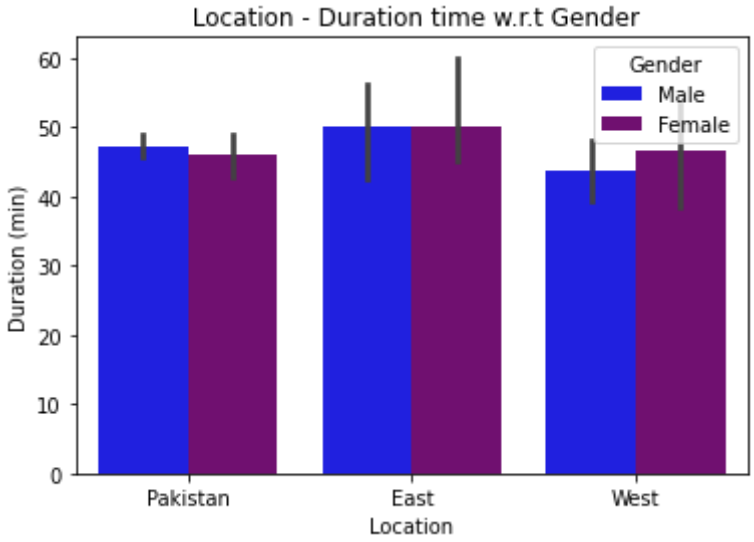
	Timestamp	Gender	Age	Location	Time of class (pm)	Duration (min)
0	1/3/2022 19:09:29	Male	16-30	Pakistan	10:30	60
1	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	60
2	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	30
3	1/3/2022 19:09:33	Male	30-40	Pakistan	09:30	30
4	1/3/2022 19:09:34	Male	16-30	East	09:30	60

In [ ]:
```
# Barplot will carry on only numeric data on an axis
sns.set_style("darkgrid")
sns.barplot( x ='Location',y="Duration (min)", data = data_viz)
plt.show()
sns.barplot( x = "Duration (min)", y='Location', saturation= 0.5 , data = data_viz)
plt.show()
```

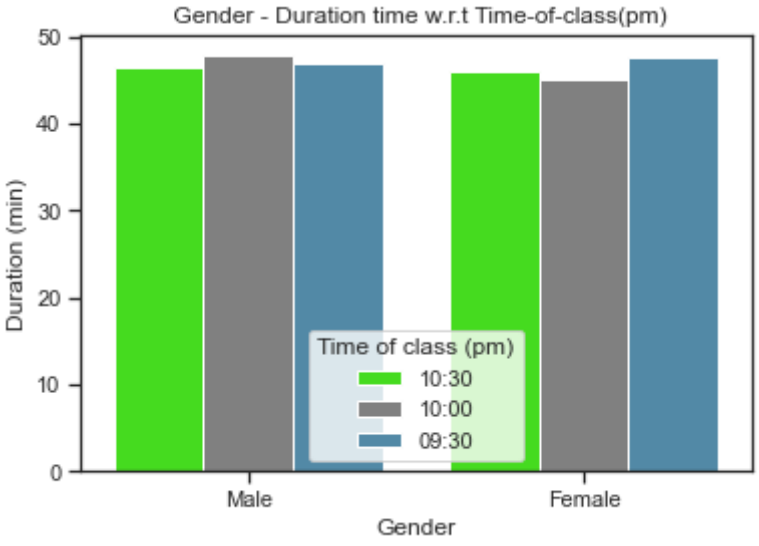




In [ ]:
```
sns.barplot( x ='Location',y="Duration (min)", hue= "Gender", palette={"purple", "bl
plt.title(" Location - Duration time w.r.t Gender")
plt.show()
```



In [ ]:
```
sns.barplot( x ='Gender',y="Duration (min)", hue= "Time of class (pm)",data = data_v
plt.title(" Gender - Duration time w.r.t Time-of-class(pm)")
plt.show()
```



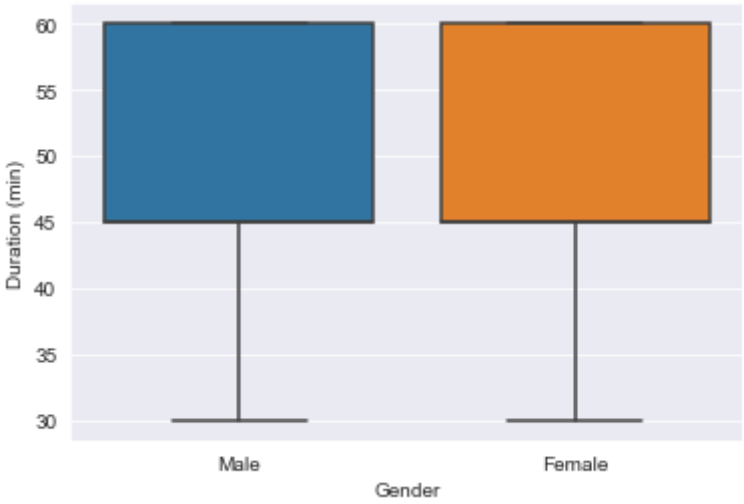
3. For Box Plot

In [ ]:
```
# Load data Set
data_viz = pd.read_csv("data_viz.csv")
data_viz.head(2)
```

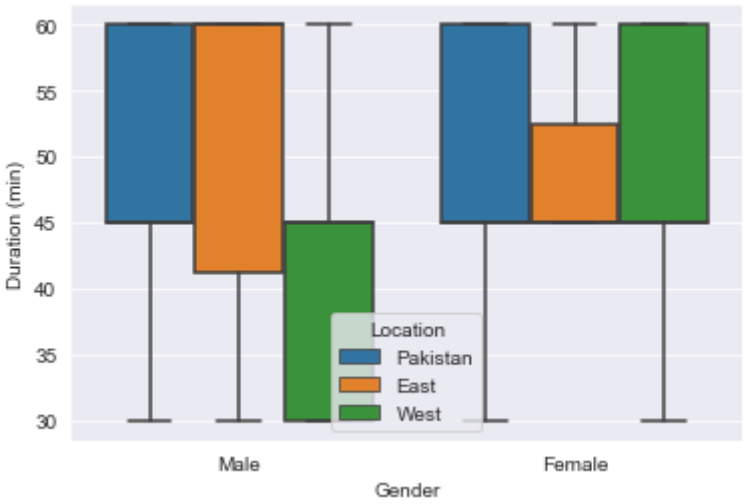
Out[ ]:

	Timestamp	Gender	Age	Location	Time of class (pm)	Duration (min)
0	1/3/2022 19:09:29	Male	16-30	Pakistan	10:30	60
1	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	60

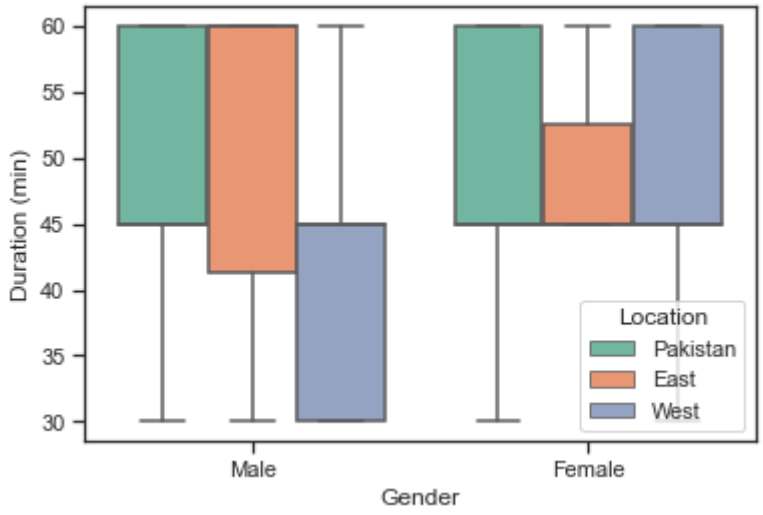
In [ ]:
```
sns.boxplot( x = 'Gender' , y= 'Duration (min)', data = data_viz)
plt.show()
```



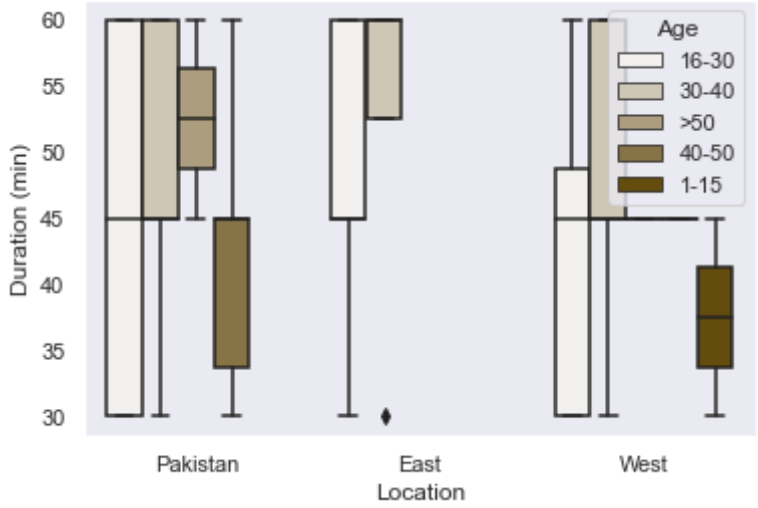
In [ ]:
```
sns.boxplot( x = 'Gender' , y= 'Duration (min)', hue= "Location", data = data_viz)
plt.show()
```



In [ ]:
```
sns.set_theme(style="ticks", color_codes=True)
sns.boxplot( x = 'Gender' , y= 'Duration (min)', hue= "Location", data = data_viz, p
plt.show()
```

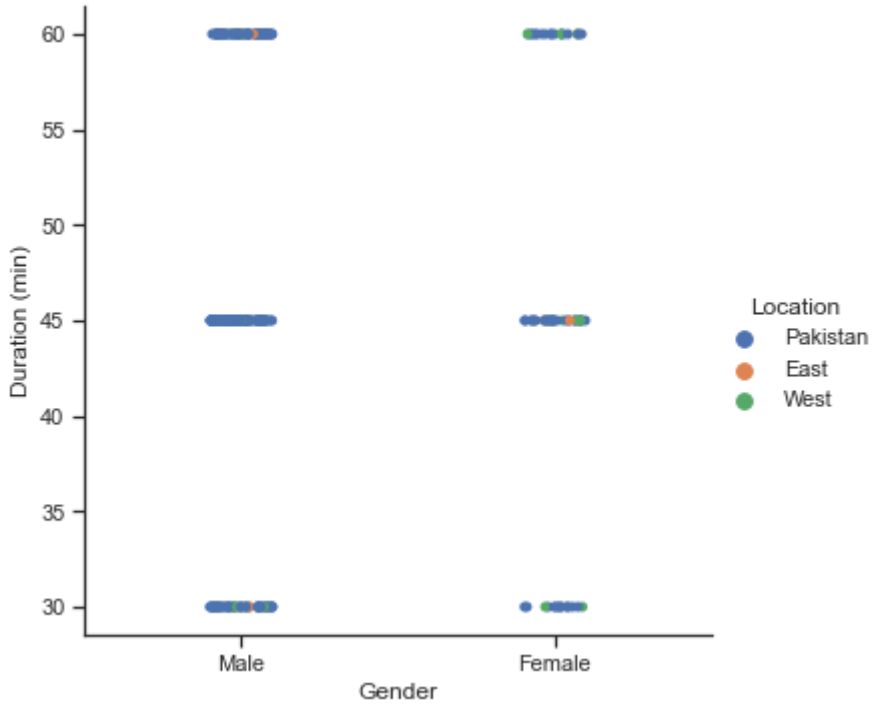


In [ ]:
```
sns.set_theme(style="dark", color_codes=True)
sns.boxplot( x = 'Location' , y= 'Duration (min)', hue= "Age", data = data_viz, colo
plt.show()
```

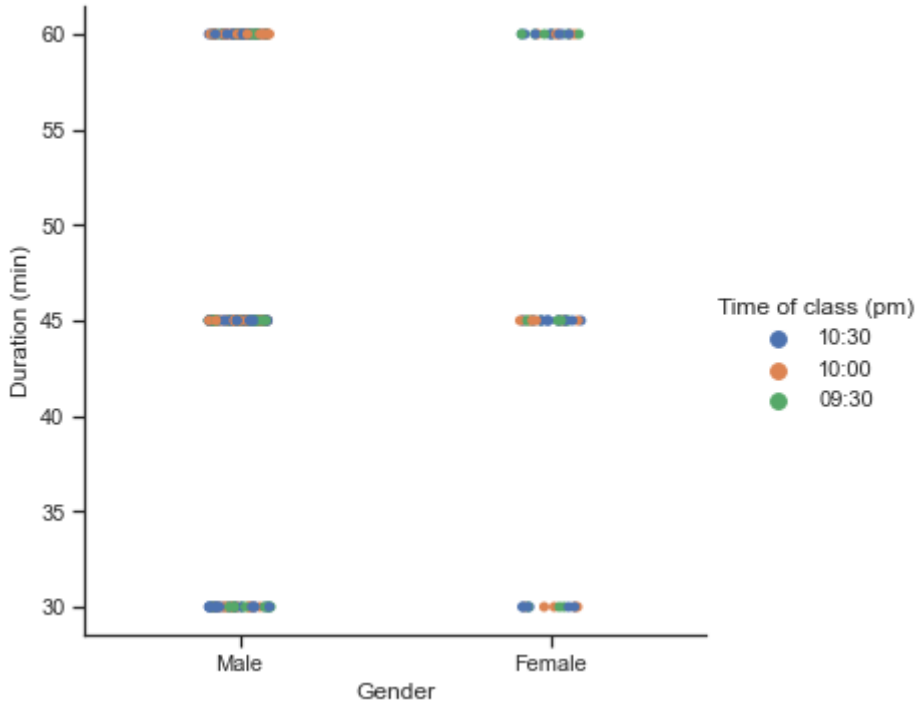


3. categorical plots

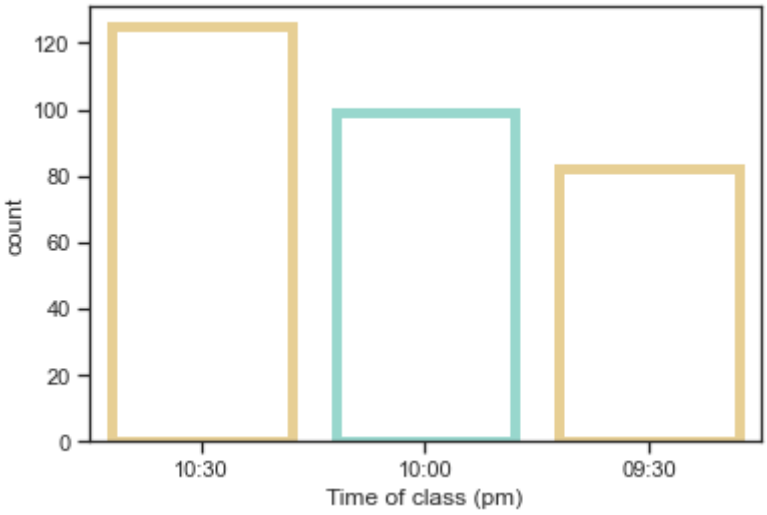
In [ ]:
```
# Load data Set
data_viz = pd.read_csv("data_viz.csv")
sns.set_theme(style="ticks", color_codes=True)
sns.catplot( x="Gender",  y="Duration (min)", hue="Location", data=csv_load)
plt.show()
```



In [ ]:
```
sns.catplot( x="Gender",  y="Duration (min)", hue="Time of class (pm)", data=csv_loa
plt.show()
```



In [ ]:
```
p1= sns.countplot(x ='Time of class (pm)', data = csv_load, palette='Set2', facecolo
                  linewidth=5,
                  edgecolor=sns.color_palette("BrBG", 2))
plt.show()
```



In [ ]:

```
p1= sns.countplot(x ='Age', data = csv_load, palette='Set2', facecolor=(0, 0, 0, 0),
                  linewidth=5,
                  edgecolor=sns.color_palette("BrBG", 2))
p1.set_title("Graphs of coleague sugestion")
plt.show()
```