DATA VISUALIZATION

STEP 1: Import libraries

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

STEP 2:Load dataset

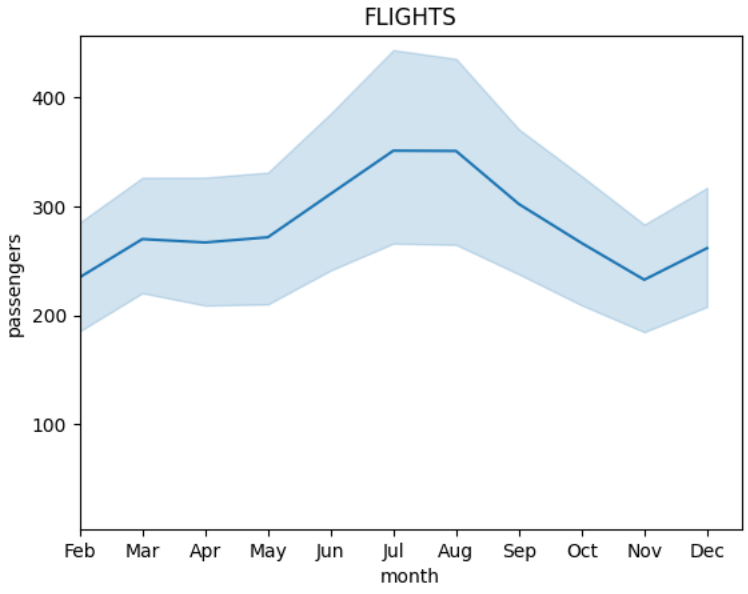
```
flights=sns.load_dataset("flights")
flights.head()
```

	year	month	passengers
0	1949	Jan	112
1	1949	Feb	118
2	1949	Mar	132
3	1949	Apr	129
4	1949	May	121

Draw a graph

```
sns.lineplot(x="month", y="passengers",data=flights)
plt.xlim(1)
plt.ylim(4)
plt.title("FLIGHTS")
```

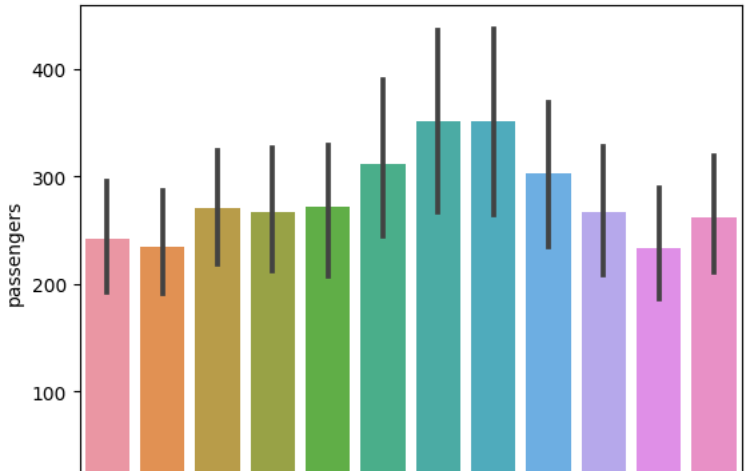
```
Text(0.5, 1.0, 'FLIGHTS')
```



BAR PLOT

```
sns.barplot(x="month", y="passengers",data=flights)
```

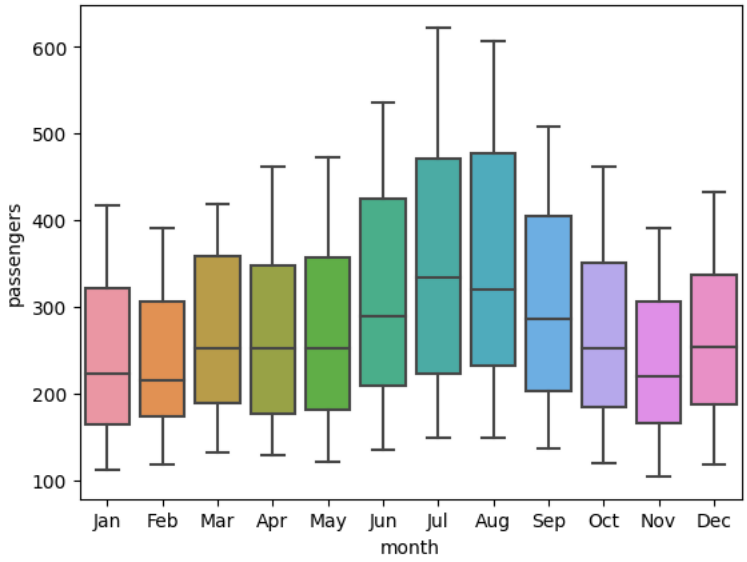
```
<Axes: xlabel='month', ylabel='passengers'>
```



BOX PLOT

```
sns.boxplot(x="month", y="passengers",data=flights)
```

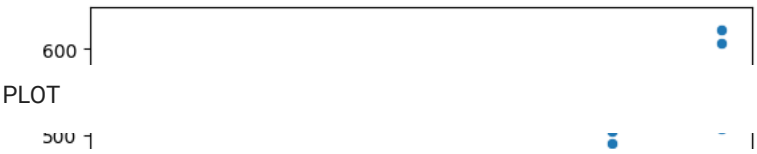
```
<Axes: xlabel='month', ylabel='passengers'>
```



SCATTER PLOT

```
sns.scatterplot(x="year", y="passengers",data=flights)
```

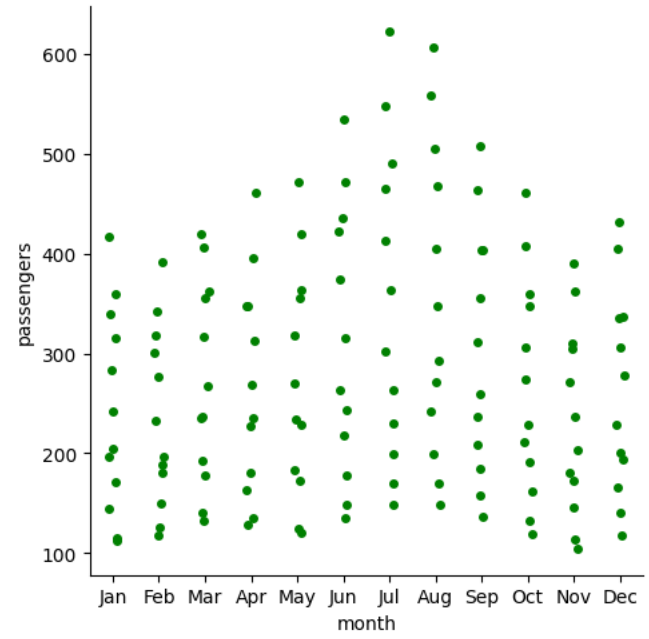
```
<Axes: xlabel='year', ylabel='passengers'>
```



CAT PLOT


```
sns.catplot(x="month", y="passengers",data=flights,color="green")
```

```
<seaborn.axisgrid.FacetGrid at 0x7fec123f8bb0>
```



PLOTS FROM SEABORN LIBRARY

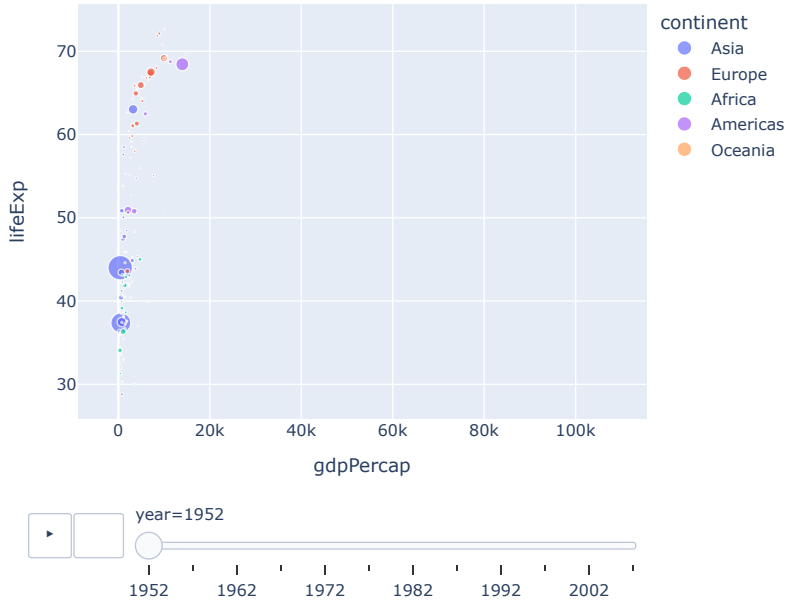
```
import numpy as np
import pandas as pd
import seaborn as sns
sns.set_theme(style="whitegrid")

rs = np.random.RandomState(365)
values = rs.randn(365, 4).cumsum(axis=0)
dates = pd.date_range("1 1 2016", periods=365, freq="D")
data = pd.DataFrame(values, dates, columns=["A", "B", "C", "D"])
data = data.rolling(7).mean()

sns.lineplot(data=data, palette="tab10", linewidth=2.5)
```

```
<Axes: >
```

```
import plotly.express as px
gapminder = px.data.gapminder()
fig = px.scatter(gapminder, x="gdpPercap", y="lifeExp", animation_frame="year", animation_group="country",
           size="pop", color="continent", hover_name="country")
fig.show()
```



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