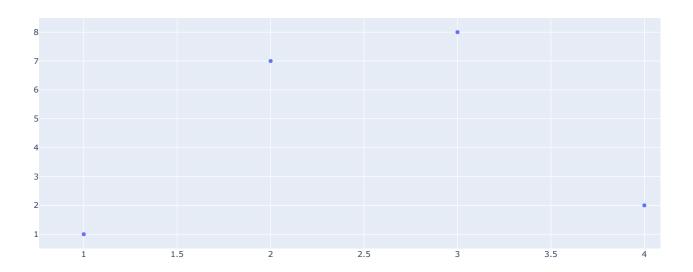
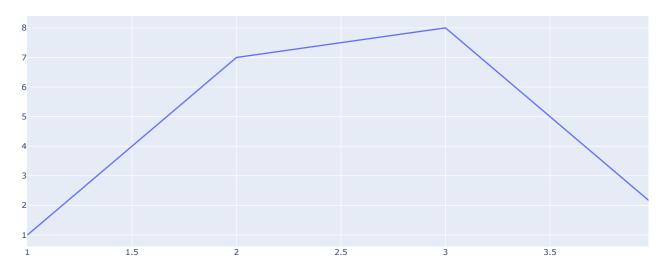
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")
#graph_object
#express
import plotly.graph_objects as go
{\tt import\ plotly.express\ as\ px}
#using graph object
#add_trace>>adidng data
#scatter plot
fig = go.Figure()
fig.add\_trace(go.Scatter(x = [1, 2, 3, 4, 5], y = [1, 7, 8, 2, 6], mode = 'markers'))
```

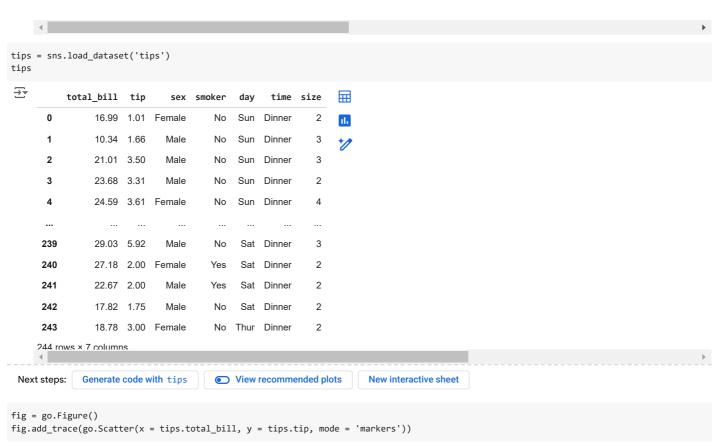




```
#line chart
fig = go.Figure()
fig.add\_trace(go.Scatter(x = [1, 2, 3, 4, 5], y = [1, 7, 8, 2, 6], mode = 'lines'))
```









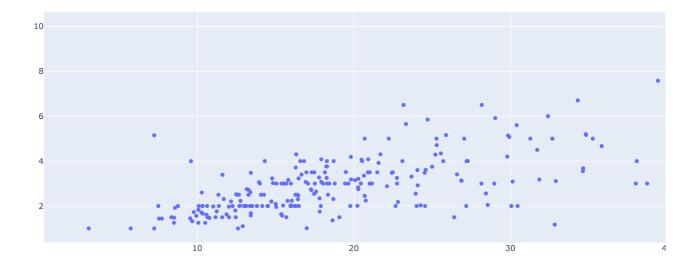


fig = go.Figure()
fig.add\_trace(go.Scatter(x = tips.total\_bill, y = tips.tip, mode = 'lines'))



4

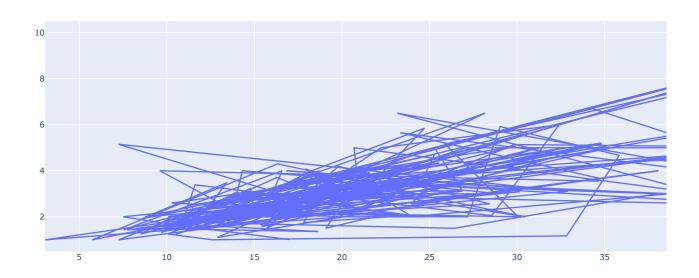


fig = go.Figure() fig.add\_trace(go.Bar(x = [1, 2, 3, 4, 5], y = [3, 8, 5, 2, 9]))



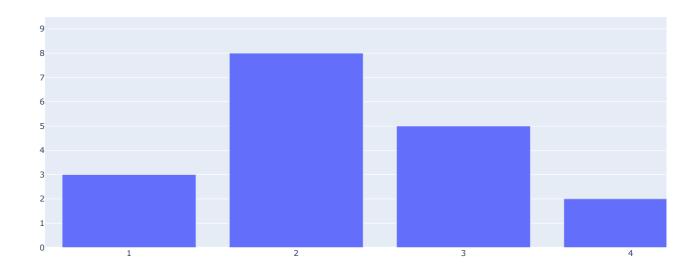


fig = go.Figure()
fig.add\_trace(go.Histogram(x = tips['total\_bill']))



4

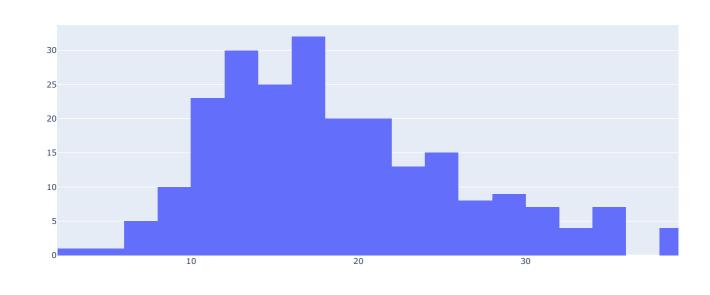


fig = go.Figure()
fig.add\_trace(go.Scatter(x = tips.total\_bill, y = tips.tip, mode = 'markers', marker\_size = 12\*tips['size']))



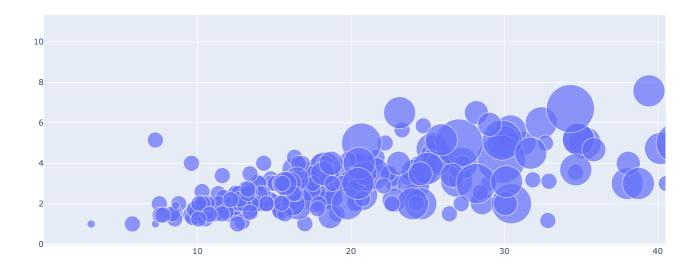


fig = go.Figure()
fig.add\_trace(go.Scatter3d(x = tips.total\_bill, y = tips.tip, mode = 'markers', marker\_size = 10\*tips['size'], z = tips['size']))



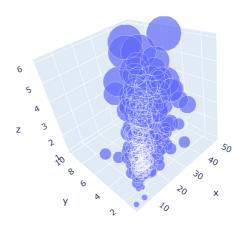
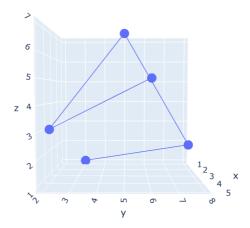


fig = go.Figure() fig.add\_trace(go.Scatter3d(x = [1, 2, 3, 4, 5], y = [3, 8, 5, 2, 6], z = [1, 2, 7, 3, 5]))









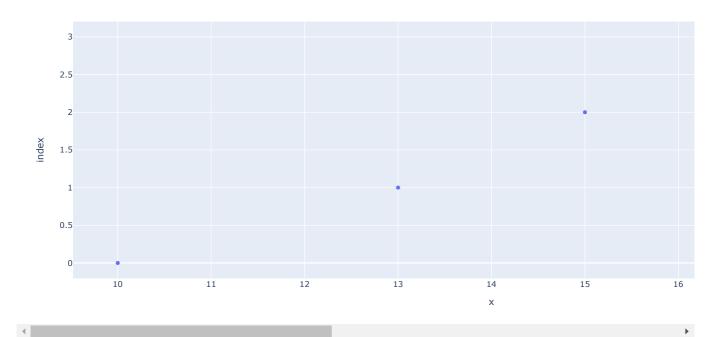
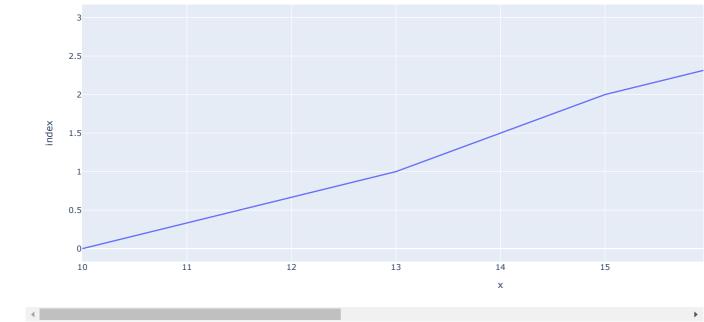


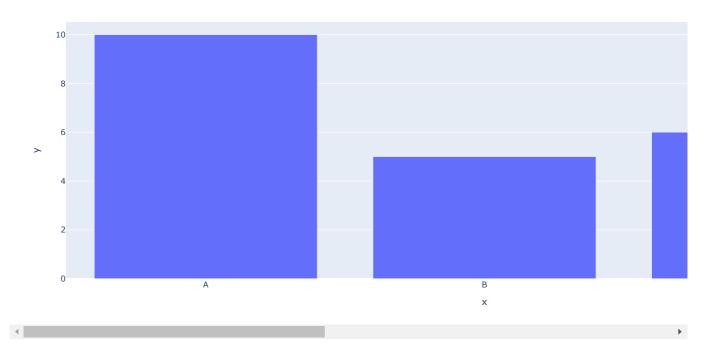
fig = px.line(x, y)
fig.show()





```
x = ['A', 'B', 'C']
y = [10, 5, 6]
fig = px.bar(x = x, y = y)
fig.show()
```

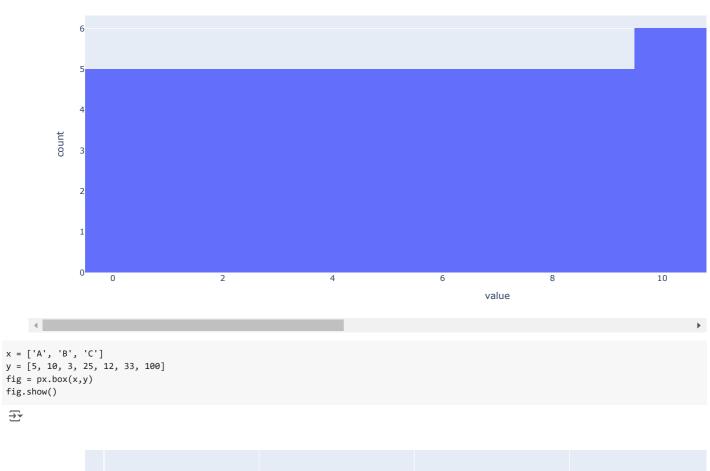


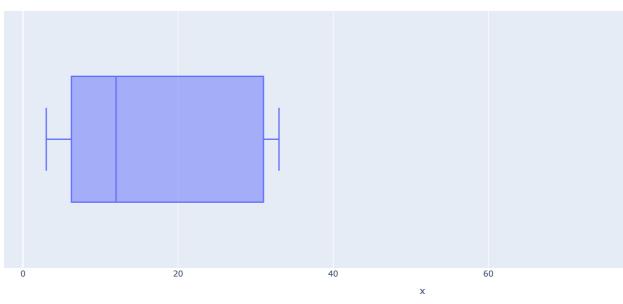


```
x = [5, 10, 3, 4, 5, 5, 6, 6, 10, 10, 3, 11, 11, 12, 3, 4,]
fig = px.histogram(x)
fig.show()
```

4

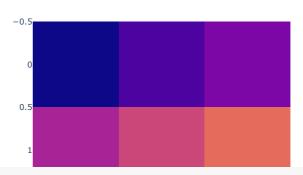






```
#plotting heatmap
data = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
fig = px.imshow(data)
fig.show()
```





```
#bubble chart
x = [1, 2, 3, 4]
y = [5, 8, 12, 3]
fig = px.scatter(x, y, size = [30, 10, 50, 100])
fig.show()
```



