

swetha K

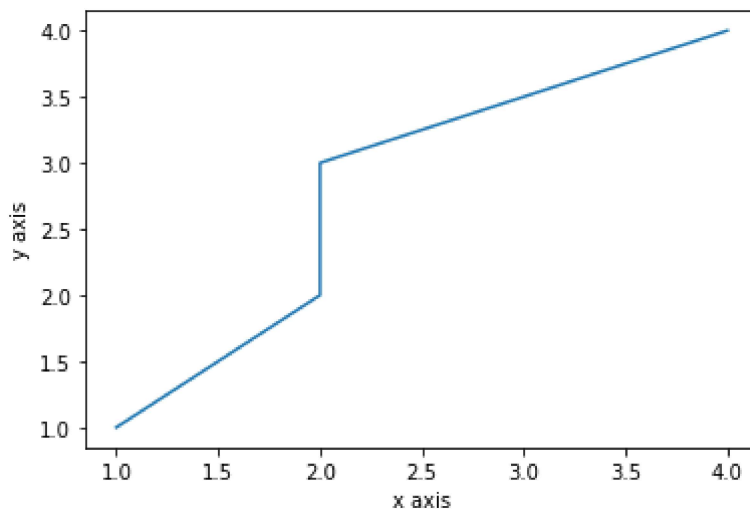
Roll no:235229143

Lab12:2D and 3D Data Visualization Using Matplotlib and Seaborn

Question1: Plot a;; 2D and 3D Plots using Matplotlib and Seaborn.
Plot 2D line,bar,histogram and box plot using Matplotlib.
Histogram and box plot using Seaborn

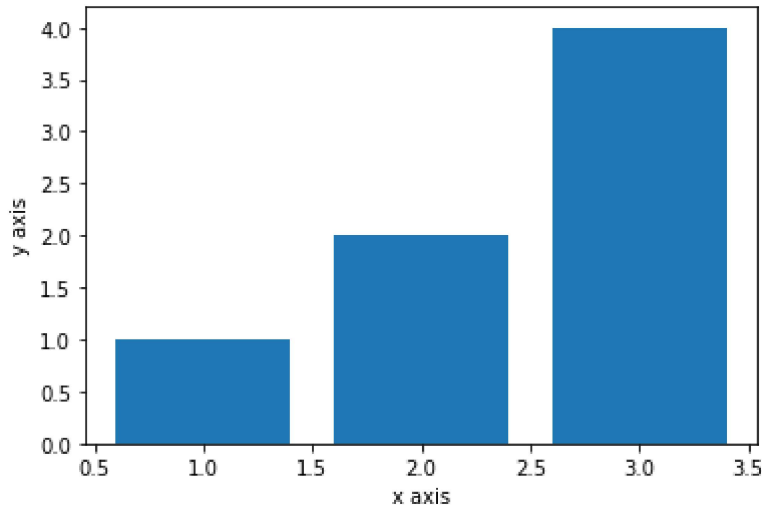
```
In [12]: from matplotlib import pyplot as p
%matplotlib inline
p.plot([1,2,2,4],[1,2,3,4])
p.xlabel("x axis")
p.ylabel("y axis")
```

Out[12]: Text(0, 0.5, 'y axis')



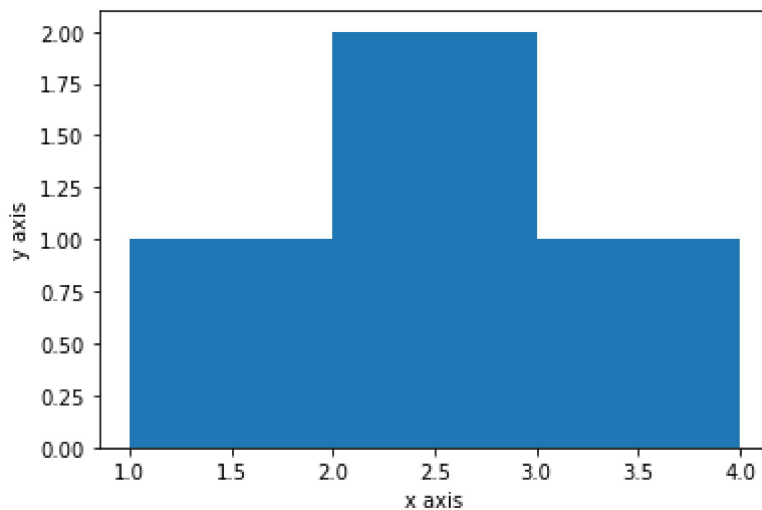
```
In [13]: from matplotlib import pyplot as p
%matplotlib inline
p.bar([1,2,3,3], [1,2,3,4])
p.xlabel("x axis")
p.ylabel("y axis")
```

Out[13]: Text(0, 0.5, 'y axis')



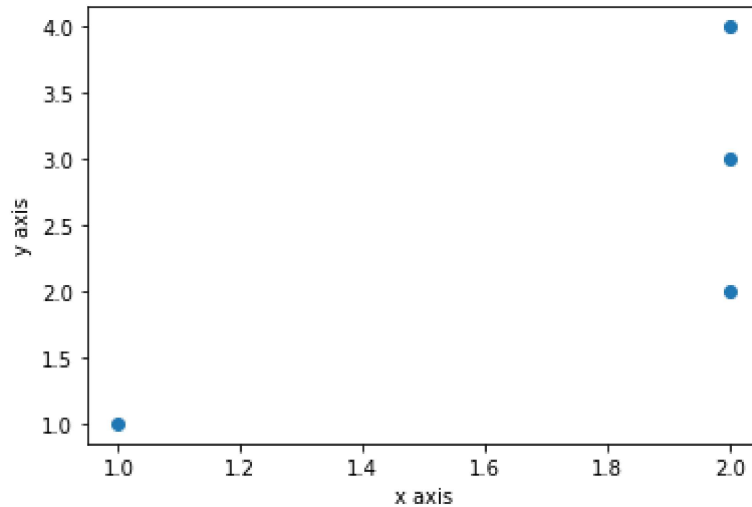
```
In [15]: from matplotlib import pyplot as p
%matplotlib inline
p.hist([2,1,2,3], [1,2,3,4])
p.xlabel("x axis")
p.ylabel("y axis")
```

Out[15]: Text(0, 0.5, 'y axis')



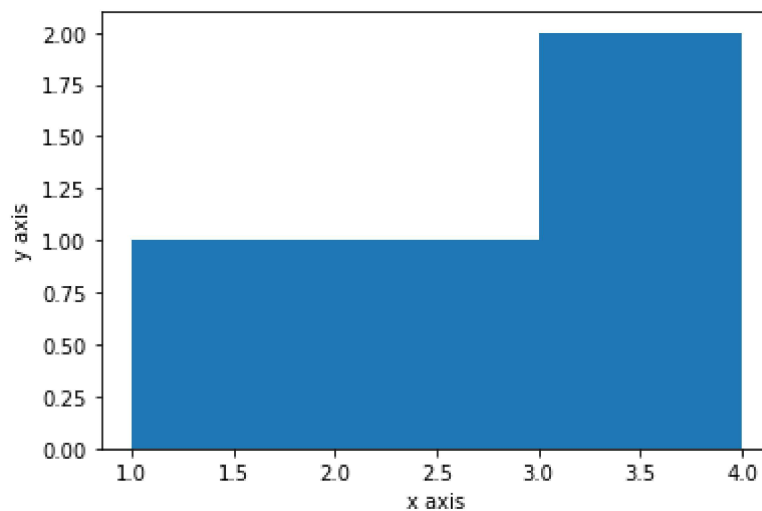
```
In [17]: from matplotlib import pyplot as p
%matplotlib inline
p.scatter ([1,2,2,2], [1,2,3,4])
p.xlabel("x axis")
p.ylabel("y axis")
```

Out[17]: Text(0, 0.5, 'y axis')



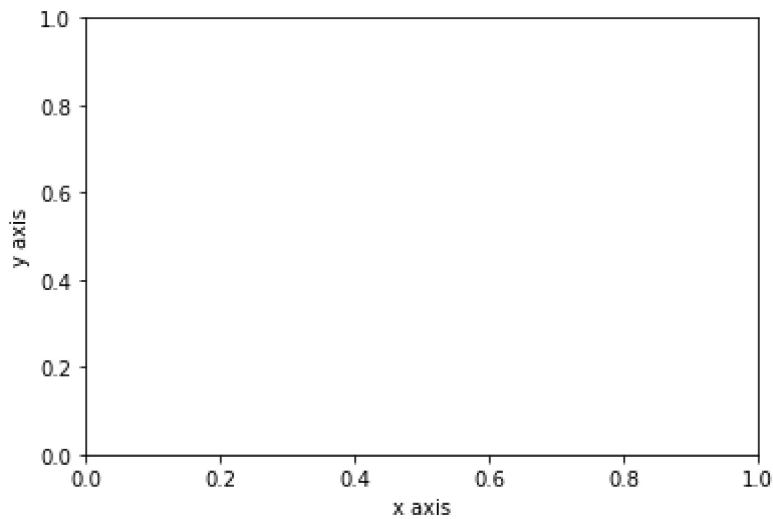
```
In [19]: from matplotlib import pyplot as p
%matplotlib inline
p.hist([1,2,3,4], [1,2,3,4])
p.xlabel("x axis")
p.ylabel("y axis")
```

Out[19]: Text(0, 0.5, 'y axis')

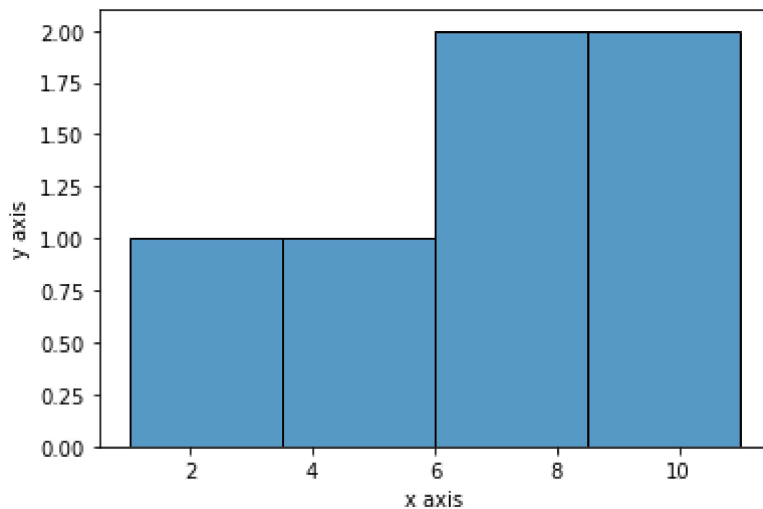


```
In [25]: from matplotlib import pyplot as p
%matplotlib inline
p.box(range(0,6))
p.xlabel("x axis")
p.ylabel("y axis")
```

Out[25]: Text(0, 0.5, 'y axis')



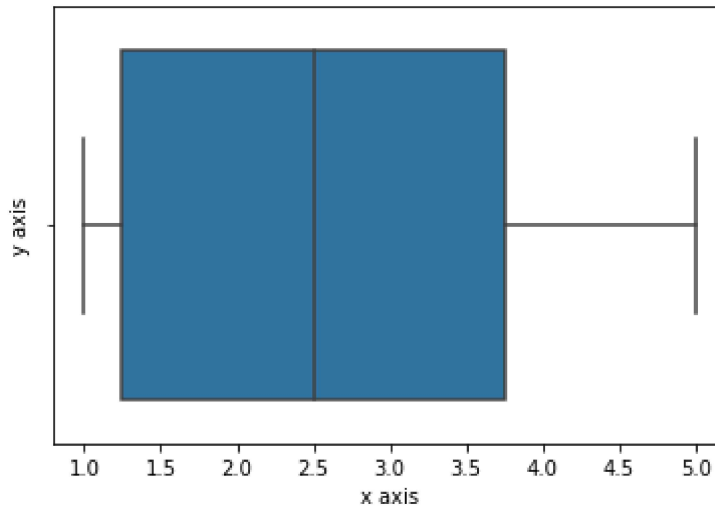
```
In [20]: import matplotlib.pyplot as plt
import seaborn as sns
sns.histplot([1, 4, 6, 8, 10, 11])
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```



```
In [24]: import matplotlib.pyplot as plt
import seaborn as s
s.boxplot([1, 1, 2, 3, 4, 5])
plt.xlabel("x axis")
plt.ylabel("y axis")
plt.show()
```

C:\ProgramData\Anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

```
warnings.warn(
```



In []: