WEKA DATA MINING

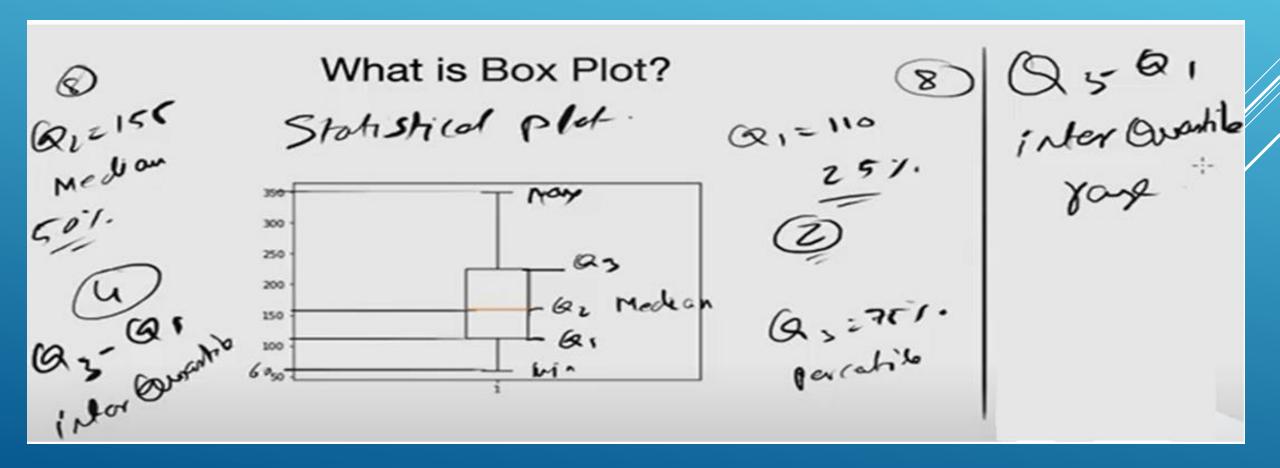
Some statistics calculations, Creating box plot, scatter plot

BOX PLOT description

```
sal_org_a = [200,300,150,90,120,350,60,170] # USD thousands per annum
In [3]:
In [2]: import matplotlib.pyplot as plt
        %matplotlib inline
        plt.boxplot(sal_org_a);
         350
         300
         250
         200
         150
         100
          50
```

BOX PLOT description

Box plot description for salary in an organization show in previous slide.



SCATTER PLOT description

25

20

15

10

```
In [1]: import matplotlib.pyplot as plt
%matplotlib inline

In [2]: x=[4,8,12,18,25,29]
y=[7,14,19,28,33,40]

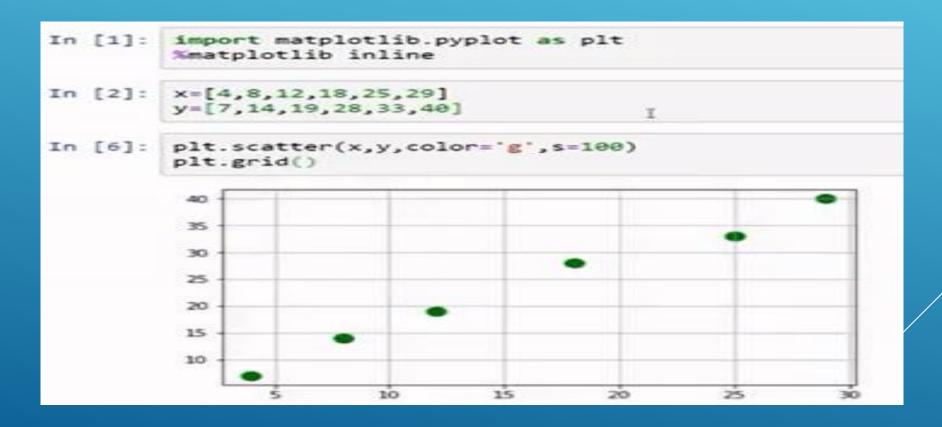
In [3]: plt.scatter(x,y)

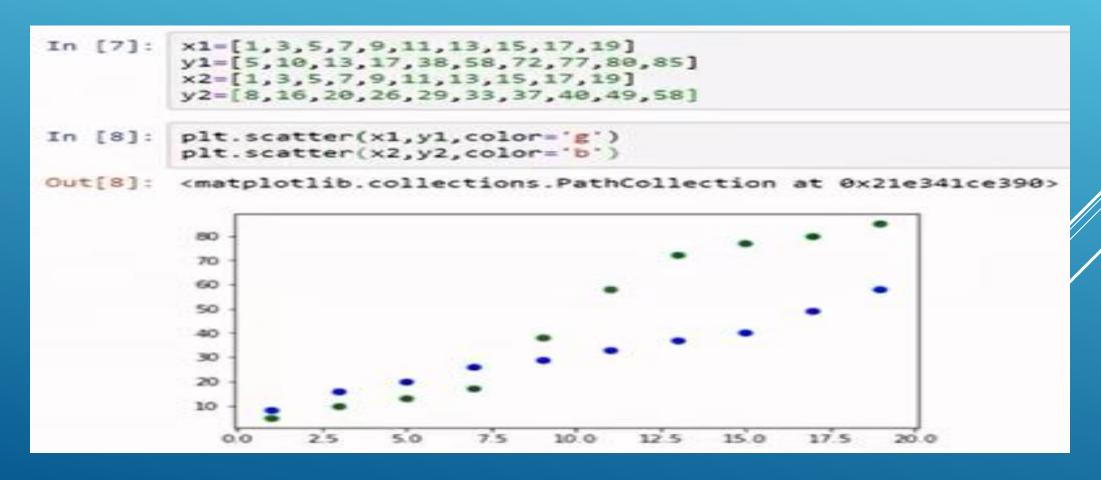
Out[3]: <matplotlib.collections.PathCollection at 0x21e33c6b1d0>

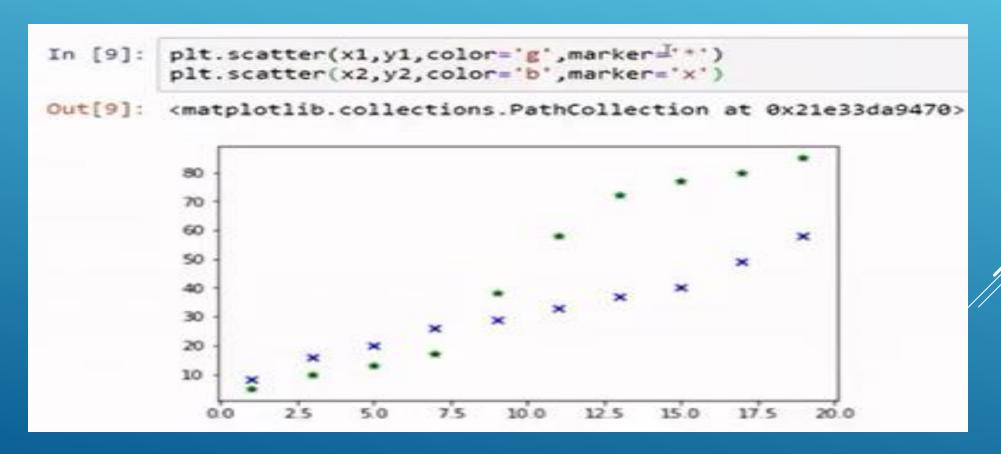
40
35
30
25
```

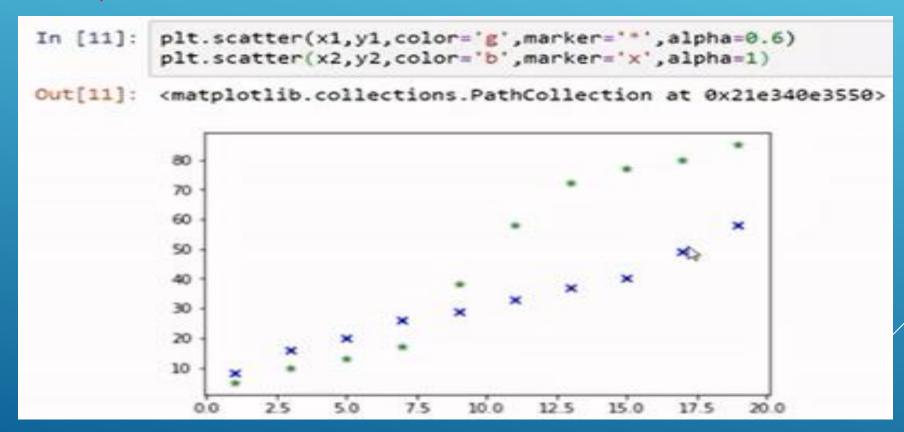
```
In [1]:
         import matplotlib.pyplot as plt
         *matplotlib inline
In [2]:
         x=[4,8,12,18,25,29]
         y=[7,14,19,28,33,40]
         plt.scatter(x,y,color='[']
In [4]:
Out[4]
         <matplotlib.collections.PathCollection at 0x21e3417a978>
          40
          35
          30
          25
          20
          15
          10
                                 15
                                         20
                                                  25
                        TO
```

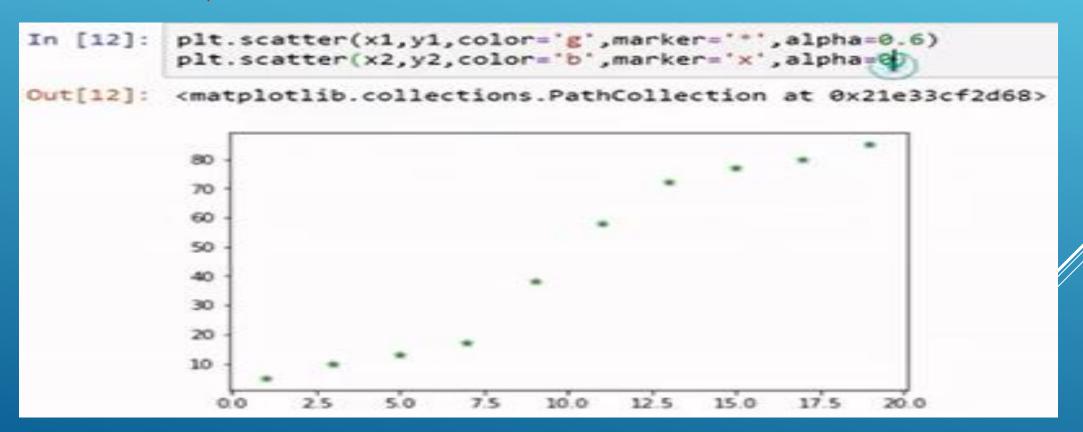
```
In [1]:
         import matplotlib.pyplot as plt
         %matplotlib inline
In [2]:
        x=[4,8,12,18,25,29]
         y=[7,14,19,28,33,40]
In [5]:
         plt.scatter(x,y,color='g',s=100)
         <matplotlib.collections.PathCollection at 0x21e33b2d390>
Out[5]:
          40
          35
                                                               0
          30
          25
          20
          15
          10
                                 15
                        LO
                                          200
                                                  25
```

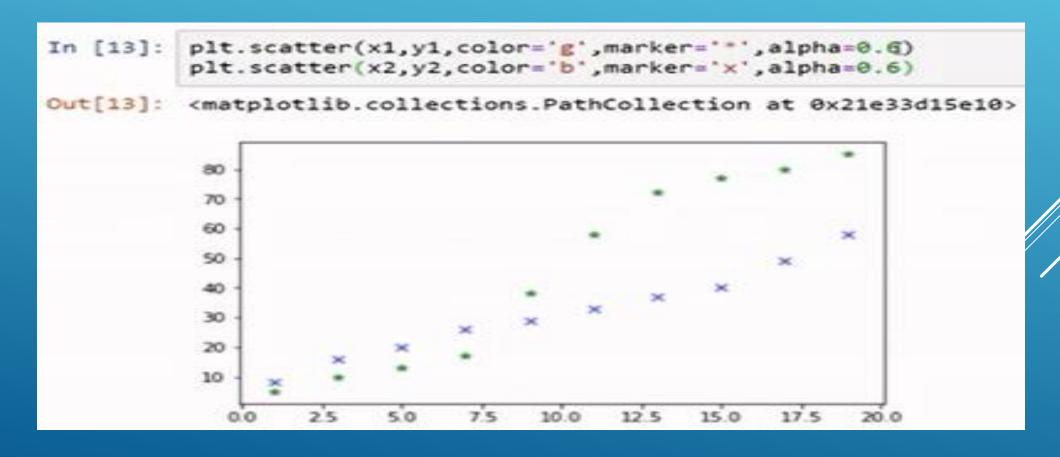


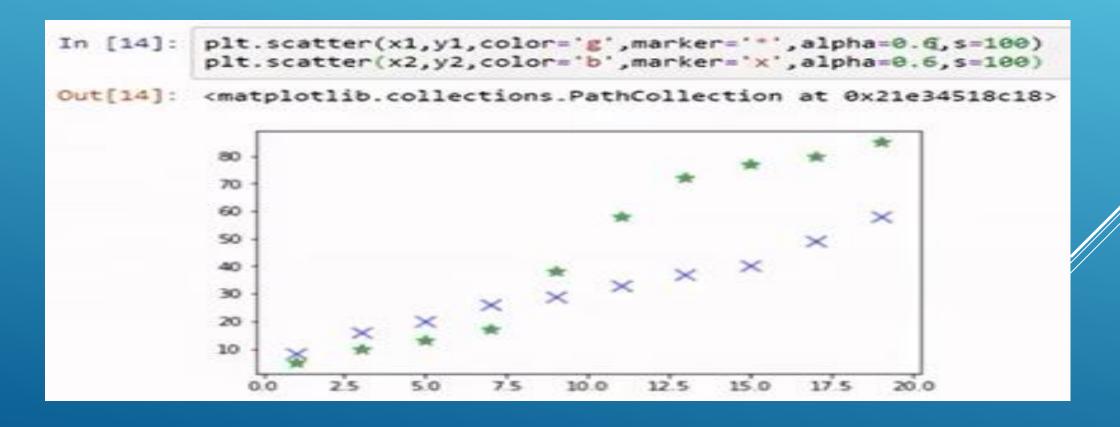


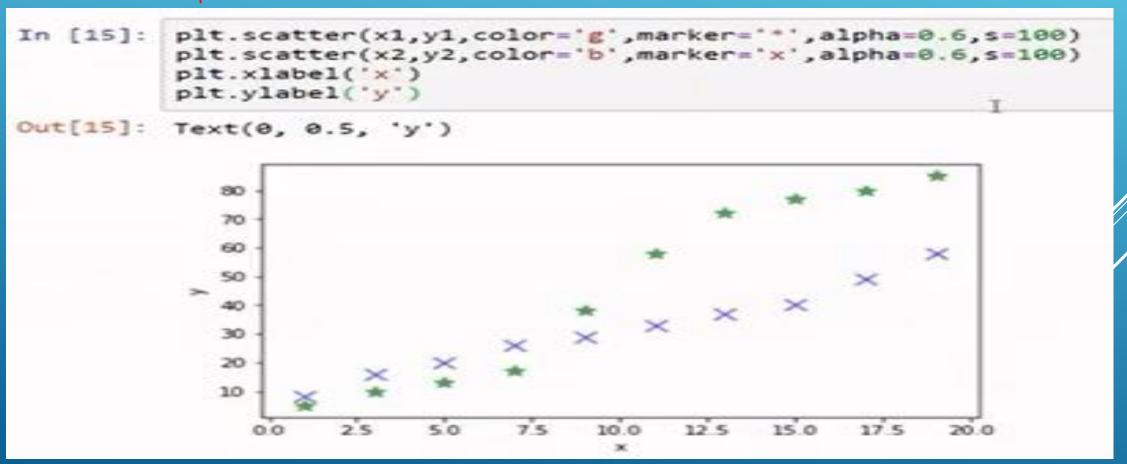


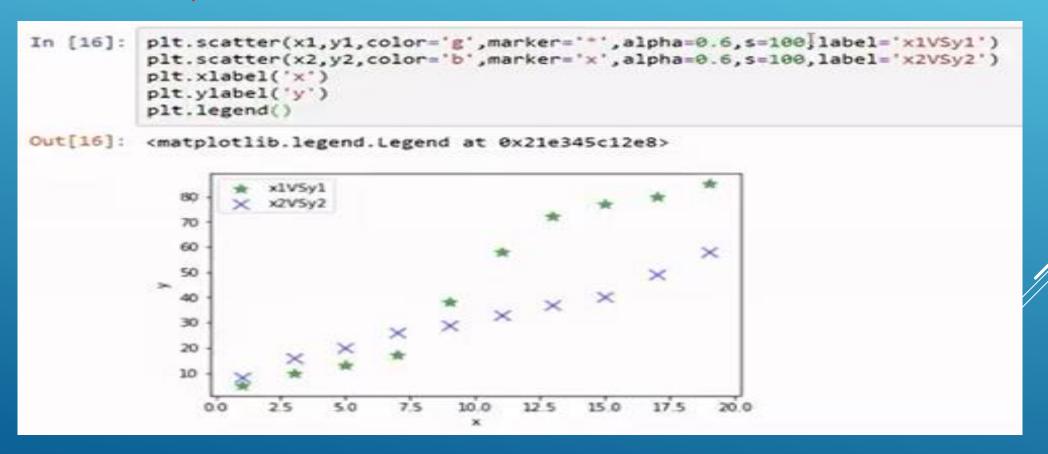












```
In [17]: plt.scatter(x1,y1,color='g',marker='*',alpha=0.6,s=100,label='x1VSy1')
          plt.scatter(x2,y2,color='b',marker='x',alpha=0.6,s=100,label='x2VSy2')
          plt.xlabel('x')
          plt.ylabel('y')
          plt.legend()
          plt.grid()
                     ×1V5y1
                    x2VSy2
             70
             60
                                                            ×
             50
             40
                                         ×
             30
             20
             10
                           5.0
                                 7.5
                                      10.0
                                            12.5
                                                       17.5
                     2.5
```