**Week 3**

* import matplotlib.pyplot as plt
* ***plt.***
* **.plot(x,y)** is used to plot any plot
* **.show()** is used to show the plot
* **.scatter(x,y)** plots the points on the graph
* **.bar(x,y)** is used to make a bar chart
* **.pie([ num1, num2, num3, etc…])** used to make a pie chart for given values to show the proportion
* **.hist(x)** used to make a histogram for the given values
* **.boxplot( arrayName, labels= [‘data’])** makes a boxplot for the given values in the arrayName
* To plot 2 graphs together we superimpose it on a variable
* ***sns.***
* .boxplot(x = ‘’, y = ‘’, data = ‘’) makes a boxplot with x and y name and data given
* **.stripplot(**x = ‘’, y = ‘’, data = ‘’)
* .violinplot(x = ‘’, y = ‘’, data = ‘’)
* .ones()
* .copy()
* .linspace() is used to add linear spacing
* .plot\_surface plots a 3D graphs
* .normal () is used to make a normal distribution
* **A simple graph doesent make sense, customization adds meaning to it**
* Plt.title(‘Title’) = Is the title of the graph
* .tickmarks is used to add customized tickmarks
* Plt.figure(figsize = (width, height), dpi = ) is used to RESIZE the graph
* .plot(x,y, ‘b^--‘,) b = blue colour, ^ = triangle pattern, -- = dotted line
* .savefig(‘filename’) saves the graph as a file
* Bars[0].set\_hatch() is used to add pattern to bar plots
* .overall, .xlabel, .ylabel, , can also make custom bins
* .autopct in pie chart automatically computes the percentage and displays in the pie chart
* Explode feature can be used to slice out a piece from the pie chart
* Side by side boxplots