## Lab assignment 4 Lyroup B

- Title: Visualize the data using python libraries matphotlib, seaborn by plotting the various types of graphs.
- Objectives: To underestand and apply analytical concept of big data.

+ Theory:

a> R - Pie charts -

- · In R, the pie short is created using the pie() function which takes positive numbers as a vector input.
- · The additional parameters are used to control labels, color, title, etc..

pie (x, labelz, xadiuz, main, col, clockwise)

b> R - Bar charts -

- the bar chart represents data in rectangular bars with length of the bar proportional to the value of the variable
- · R uses the function barplot () to execute bar charts.
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Syntax -

(los, pra seman, niam, dalx, H) talquad

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Sundaram

- O R boxplots -
- · Boxplots are a measure of how well distributed is the data.
- · It divides the dataset into three quartiles.
- · It represents the minimum, maximum, median, first quartile and third quartile in the dataset.
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boxplot (x, data, notch, vasuidth, names, main)

- d> R histograms -
- esprax otri betestand eldairar la seular la seinneuper est struspreger margateir R.
- · Histogram is similar to bar chart but difference is it groups the values into continuous range.
- · Each box supresents the beight of number of values present in that range.
- · R weater histogram using hist () function.

Syntax -

hist (v, main, wlab, xlim, ylim, breaks, col, bordex)

- e> R line graphs -
- · A line chart is graph that connects a series of points by drawing line sigments between them.
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- · sine charts are usually used in identylying trends in data.
- The plot function in R is used to weate line graph.

Syntax -

plot (v, type, col, xlab, ylab)

f>	R-	scatterplats	-
-	-	dancers of the	_

- · Scatterplots show many points platted in the Costesian plane.
- · Each point sepresents values of two variables.
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- · The simple scatterplot is created using plot () function.

Syntax -

plot (x, y, main, xlab, ylab, xlim, ylim, axes)

g> &catterplat matrices -

- · When we have more than two variables and we want to find correlation between one variable versus sumaining ones we use scatterplat matrix.
- · talquettare la serietam etarer et noitanul () scriag eser ell ·

Syntax -

pairs ( Jermula, data)

Conclusion: Thus we have learn't risualization of data using R/python by plotting various types of graphs.

