Created @September 29, 2024 2:58 PM

Python Topics covered :- List , Dictionary , tuples

## **Basics of Libraries:**

- 1. Numpy
- 2. pandas
- 3. Matplotlib
- 4. Seaborn

	List Poten: Data skurcuses Page D
•	Append -> To acid at last ex: list-append (["John", "Dovid"])
•	tosent -> To add in perfector index ex: list-insert (1, "John")  under value
	Sets f no duplicate element}  ex set vor: { 1, 2, 3, 4, 5}  set vase { 1, 2, 3, 4} output
	# Hore we con't occess through indexing
	Dienonary > key value pairs
	my-dret [cor4] = "Audi2.0"  Is if the almosty present- 11- will supposed by new value
	punt (car-type)  {'cor1': ['Monedes': 1960], 'cor2': ['Audi: 1979]
	frunt- (cor_type ['cox 1']) {'Montedes': 1960}
	punt (cor type ( 1'cor1'] 'tronudu']) 1360

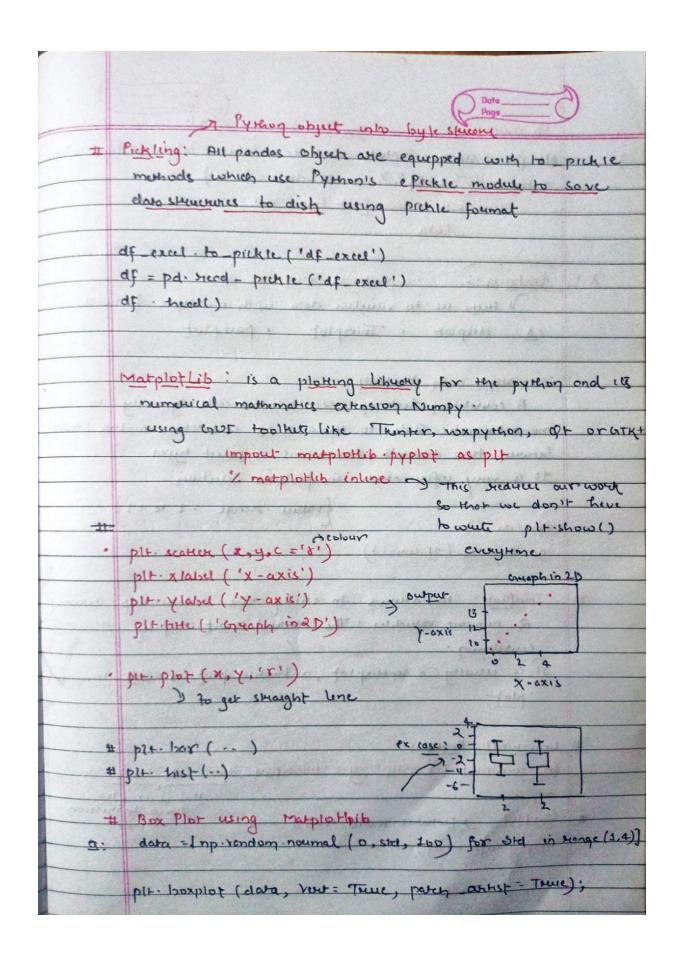
	Date Page
L	Tuples: Inot murable
	ex: my-tuple = (1,2,3)
	my-hupletod=("John")
	This will throw error
	palent and the palent of the second of
	Libuary: Numpy
	It provides a high -performence multidimensional
	corray object, and tool for working with these aways.
	It is the fundamental package for scientific computing
	with Python.
	dimpout numpy as npy # impouting.
	chied lies (B. S. S. S. S.
	ex. my_list=[1,2,3,4,5]
	orr = np.array (my-list) = -1000
	type (orr)
	=> numpy. ndorray owput.
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	# Cucoung Multiclimenhonol may
	ex
	ex arr= np-array (my-list 1, my-list 2, my-list 3)
	The indexeng
	(1: arr [3]
	-) 4 owput.
	P 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	# In multidimenhonal
	ex orr [row, column]
	car [0:2, 3:4]
_	
_	# copy Function and buradeasting
_	exc[3:] = 100
-	02001/[11 2 3 +12 +1
	orray ([1,2,3, too, top]) output.

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Page Date
     Pondas:
                  { import pendes as pd }
     This library provide high-performance, easy to use data shruchures and data analysis tools for the Python
 4 what is Data freezes?

4 combinehay of columns and hows and shows us how our day look like.
the Chehng data Frence (nperrange (0,20). Hylope (5.4),

index = ['Rows', 'Rows' - ...],
                          Column = [ 'Column 1', column 2' - -- ])
  the Accessing the element df. loc ['Apow1']
 # df. iloc [0:2, 0:2] # inding by iloc
              you column
  # Convert Dotopromie into oracy
  4 topoutant functions
   · df. info()
    I surput: give details like how many entire
       column, data type, memotry usage
  - Duput: shows, court, mean, stel, percentle
      this will show doler in febrular found
```

	CSV Page
	from in import sking to, Byle to
#	data = ('col1: col2!, col3/n'
	(v) 1 4 \a
	'A h 1/h'
	1.4.3\n')
	The same was the same with the
#1	Read From specific columns
	of = pd. Head csv (Strungto (data), usecols = lombda x: x uppor
	in ['cols'. (col3'1)
	The second of th
#	To conjust dataprime into cer file
- of	· to_csv('Test · csv')
# 00	- 'a, b \n" hello, 11"Bob \1", nice to see you", 5'
clabo	= 'a, b \n" hello, 11" Bob 11", nice to see you", 5'
pd· s	read_csv (Strungto (data), escapecher = '11')
output!	a vital by the
- curps-	
	o help, "Bob" nie to meet you 5
T URL	to tsy
	Comment of the second
of =	pd . seed _cev (' ', sep=' \t')
	theod ()
# J607	:- It contains key value pairs
	mark a district course of the
# Recding	Free Files
Jr 44	el a bel' breed excel ( land a
dr ext	el = pd. Heed _ excel ( 'Excel_semple .xlsx')
July - Cx ca	



	Code A
1	Date
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- 18 h	Cottsclation with theatmop
2	A conscious heatmap uses coloned cells typically in a
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	between two discusste dimensions or event types.
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	gradues stenge - + to +1)
	of court ( )
Report of the	sns. heatmap (df.cour())
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	I number variables. The control chart display their
	continuos.
	It is usually a scottuplet, a heatin plot or a 213 density
	blot. surely differents his of the
- 41	Univariate Analysis
-	sns jointplot (x=1 tip', y= 1 total bill, data = df. kind=1 tig')
	Hai will also
n	Pairplot: I feetures move teron 2. duo w reguession
The same	sns parplet (af)
	well tax him date, and the rest, appropriate