CREATOR: GUIDO VAN ROSSUM YEAR: 1991 LATEST VERSION (2019): 3.7.4 TOP LIBRARIES: TENSORFLOW, SCIKIT-LEARN, NUMPY, KERAS, PYTORCH, PANDAS, SCIPY		INT/FLOAT OPERATORS	3 + 2.56	DICT. OPERATORS	{ky1: "A", ky2: list}	
		int("25") type() A//B A&B divmod(A, B) len() max() min() abs() pow(5, 2) 5**2 round(A, 3) sum(list)	> String to integer > Returns type > Returns ratio > Returns reminder > Ratio/reminder > Returns lenght > Max. value > Min. value > Absolute value > 5 powered by 2 > 5 powered by 2 > Round 3 decimals > Sum all list items	dic[key] = val dic.update{{ky: v, ky: v}} dic[key] = val dic[key] dic.get(key) dic.get(key, DefVal) dic.pop(key) del dic[k] dic.keys()	> Add a key > Add multiple keys > Overwrites value > Extracts a value I > Extracts a value III > Delete K and V I > Delete K and V II > Keys List	
.EMENTAL LIBRARIES import * mport lib > Import all from lib rom lib import function > Import function I b.function() > Import function II	dic.values() dic.items() key in dict dict(zip(lst_1, lst_2))			> Values list > Returns K and V > Checks key > Pair lists to Dict.		
dir(math) import library as lb	> Show all functions >Library shortcut	LOOPS		LIST & DICT COMPREHENSIONS		
	"Hello world"	for item in list: print(item)	> for loop > Iterate by items	LIST COMPREHENSION lst_A = [i for i in lst_B if i	< 0]	
str(29) len("string") "My" + "age is:" + "28"	> Int/Float to string > Total string length > Sum strings	while limit <= 5: limit += 1	> while loop > Iterate by condition	LIST COMPREHENSION NESTED lst_A = [i if i < 0 else i-5 for i in lst_B]		
'Hey!" * 3 > Repeat string by 3 'a" in "chartlstown" > True if str in str		LIST OPERATORS	["A", "B", 5, True]	LIST COMPREHENSION NESTED Ist A = [[i+1 for i in x] for x in lst B]		
**letters'.isalpha() > Check only letters *string'.upper() > \$TR to CAPS-CASE *string'.lower() > \$TR to lower-case *string'.title() > First letter to CAPS list("string") > Letters to list *my string'.split() > Words to List *".join(list) > List to String by "" *AB".replace("A", "B") > Replace AB > BB	> STR to CAPS-CASE > STR to lower-case > First letter to CAPS	len(list) list(range(0,10,2)) list.reverse() lst[idx] lstfidx] = "item"	> Count items in list > List from range > Reverse the list > Element index > Change item	DICT COMPREHENSION {key: value for key, value in dict.items()}		
				FUNCTION & LAMBDA:		
	Ist.lax) = "term" Ist.append('item') Ist[-5:] Iist.index("B") Iist.insert(0, A) Iist.remove(5) Iist.count(A) Iist.sort()	> Add item > Slicing list > Position index > Insert item by index > Remove element > A frequency > Sort in same list	def switch(in1, in 2): return (in2, in1) switch("a", "b")	> Code as function > Switch variables > Run function on a,b		
string.find("A") > Index from match " A ".strip() > No leading spaces "My age: {28}" > Insert in string ""My age: {}".format(28) > Old insert in string			plus_one = lambda x: x+ plus_one(5)	1> Code as expression > Number plus 1		
,			22.2220	TIMING THE CODE		

> Sort in new list

> Entwine pair of lists

> Add index to list

> Last item

"AB\"CD"

var = input('question?')

"\n"

"\t"

> Include symbol "

> New line in string

> Tabulator in string

>Input string form

sorted(lst)

list(zip(lst_1, lst_2))

enumerate(list)

lst.pop()

time.localtime()

TIMING THE CODE

time.time() > Get elapsed time time.sleep(s) > Pause code s secs.

> Get local time

NUMPY LIBRARY		PANDAS LIBRARY		PANDAS AGGREGATES (COMANDS)	
BASIC FUNCTIONS IMPORTING CSV FILES: np.getfromtxt(f.csv', del- np.mean(lst) np.sort(lst) np.median(lst)	import numpy as np limiter = ',') >> Average >> Sort the list >> Median >> Percentil n% >> Standard devi. >> Conditions	DATA FRAMES IMPORTING CSV FILE pd.read_csv('f.csv') pd.DataFrame(Dict) columns = [list]	import pandas as pd iS: >> Create a DF I >> Create a DF II	df.c1.unique() df.c1.nunique() df.c1.mean() df.c1.median() df.c1.std() df.c1.max() df.c1.min()	>> Extracts the set >> Extracts len(set) >> Average of the column >> Median of the column >> Standard deviation >> Max number >> Min number
np.percentile(lst, n) np.std(lst) np.mean(mtx < n)		df.head(n) df.info()	>> shows first n rows >> entries and data	df.c1.count() P.A. (GROOPING)	>> len of the set
np.var() MATRIX mtx = np.array(lst1, lst2 np.mean(mtx) np.mean(mtx, axis = 0) np.mean(mtx, axis = 1)	import numpy as np , lst3) >>Total data mean >> Columns mean >> Rows mean	df['colum'] df[[c1, c2]] df.iloc[index] df.iloc[i:i] df[df.c1 > n]	NS AND ROWS >> Extract column >> Extract multiple clmns >> Extracts columns as df >> Extracts the Row by idx >> Extracts Rows as df >> Extracts Row by cond. I >> Extracts Row by cond. II	df.groupby(c1).c2.n df.groupby(c1).id.cd df.groupby(c1).c2.a df.groupby([c1,c2]) *>.reset_index() df.pivot(columns =	ount()* >> Counter apply(lb)* >> lambda
		drop = True	>> Reset the index >> Without inserting it >> Modify overwriting OLUMNS	pd.merge(df1, df2*)>> Merge method I df1.merge(df2)>> Merge method II df1.merge(df2).merge(df3) * > how = 'outer' \ 'inner' \ 'right' \ 'left'	
				pd.merge(df1, df2, left_on = c1, right_on = c3)* >> To merge 2 data frame with same column * > suffixes = [name1, name2] pd.concat([df1, df2])	
		APPLY MODIFICATIONS & LAMBDA SORTI		SORTING METHODS	5
			lb) >> lb = lambda 	df.sort_values(by = ['c1', 'c2'], ascending = False)	
		df[col] = df.apply(lb, axis = 1)			