Map Function - Applies a given fraction to all items in an input list (or any other iterable) and returns a map object (an iterator) This is particularly useful for transforming data in a list Compteh crainely.

It sware("): John (n # 2) Strasse (10) oldi Berner 100

ranbon = [1,2,3,4,5,6,7,8] list (squere, number) 66: [1,4,3,16,28,36,49,64]

Lambda Junction with map

number = [1,2,3,4,5] list (map (lambda x = x x x, rumbous)) Offe [1,4,9,16,25]

Map multiple iterables.

rumbers = [1,23]

Numbers 2 = [4,5,6]

added_numbers = (nep (lambde n, y: n+y, numbers), numbers). ans = list (added numbers)

mint (ans)

op: [5,7,9]

map() to connect a list of strings to integers Sh-rum = [11, 2, 31, 41, 51] Intrum = lift (map (int, str num)) (ment (men) 019: (1,2,3,4,5) (hote): Browst for can also be called with map 80 E. upper-mood = lift (map (Shr. upper, mords)) # FPIter() Function _ constructs on Herator from elements of an Pterable for which a function returns true. It is used to filter out Hens from a list (or any other steasble) based on a condition. Ex: list1 = [1,2,3,4,5,6,3,8] list (Sitter (even, 164.1)) olb: [314,6,8] # Felter with lambda function num= [1,2,3,415,6,7,8] greater = 11st (Potter (lambda x: 225, num)) Print (greater) op: [6,78] It felter with land do for 4 multiple condition (e 16, 6, 6, 2, 4, 8, 2, 1) = mun 96: [8,8] even and greater = list (fifter (landa n: n>5 and nine=0, rum) Print (eren_and_greater)

Thus. Seter () function is a powerful tool for creating revealors that bilter items out of an iterable based on a function. It is commonly used for data dearing, following objects, and removing unwarded clements from lists. By mostoury fitted, we can write more concise t allections in 19ther. Official age for beganing of wearborging