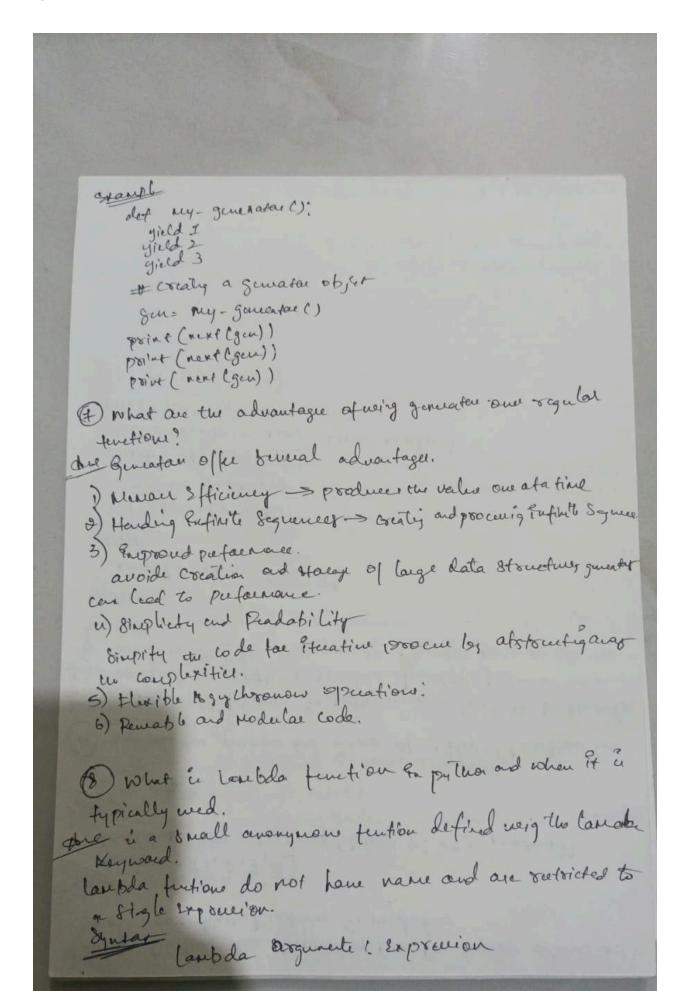


3) explain the concept of function exquirents and parameters En python. the parameter and arguments are offen und Interelogicatly that they refer to distinct concepts related to functions. Parameters There are the variable before within the parantheses for functions. They art as placeholder for the value that the furtion Expect to veteine when it is called. function when it is called, when a function to a invoked. the asgument proported are arrived to Coursepordi, parameter. Aguacent Example Let greed (name, needge): - It name', menagian front parameter "" This function great a person with a centor neuge" " " point (t'hullo, quanit! { nevery?") greet (" Bop, " Har egrend day") (3) what at the different ways to define and call function En python. the settling a twetion. the standard way to define a function for pyruson is vering the det keyward det further-name (na 1, par 2, par 3.) refur recut #50 tiand calling a fenetion to Execut we code with a defined function, it must be called pytter furetion_ orane (ag I , ag 2, ag 3...)

By mistake, I wrote all the answers in a book and uploaded the same.

maripl dot great (none): point (d" thelio, Snane; !") def odd - number (a, b). retur arb of Freetiber could great ("Allice") your = add number (5,3) port (t" Tu sure L' & occurt 3") (1) what is purpose of the " settler" statement Per pythier function And The serten Statement Pu python function Scene to Exit for function and sent a value back to caller. Key as put of outur Exite the function: It foundable ferminale and control is found best to point Pu code. octure a value The wale is sent back to called. Enable data flow. del calculate - ava (leigth- width): ara = long th + width refer area It referre the calculated area. It cally the fretion and storing two ocetangle value retagle-area - Calcuter-area (5,8) point (to The wea of Scetargle i! (Trutary lo-aron)")

(5) what are Header for pyther and how do they differ from Etceable ? the In python, an iterable in an object that can be iterated one, many 1+ can octure it should one at a time. 2x liste, tuple, storinge and dictionaire. An objet in Pteable of it define situe an - Efel _ () augititumes A Entertar must Puplement The Pterata prootocol, which comerte of two nections! *_9tel_(); + - next - (): The key differere in that our iterable in some of data that can be Extented, while an Efecater is well as in that performs eas "Heation. evauple next (my-lit) = 1 my-list = [1, 2,3] next (my - list) = 2 my- (teestar = Eteck my-list) (6) Explain the concept of generators. In python so how they are du A General en pythus à a speial type of fuetion that Jetwere an iterator allowing for the generation of Sequence of value on at a time, on demand, rathe than falting the Entire Seque En memory. Generator are defined similarly to regular functions noing the det Keyward I but Rufted of weig outer to bent back a value and farinate The function, they we yield keyword.



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Small, one time function & needed. runbun = [1, 2, 3, 4] doubled runbau = list (nap (landa x: x*2, runburs)) OP (1,4,6,86) (a) explain two purpose and mage of 'map ()' function on And The map () further for python to a buit to high-order tenetion and to apply a specified further to Each Frear for an iterable. It returns an Eterator treat yields the Lewete. Syntax map (furtion, iterable) example det Egnas (nuntes)! return numb pass nuntre = [1, 2, 3, 4, 5] squede number = map (squae, numbers) project Cost (squared-newborn)) OP (1, 4,9, 16, 25)

(10) what is difference blow 'map()' vocauce ()' and filter() Ans Map () Applie a given tenetion to each Ekn En an Exceede and setente an Ekatal yilding the recents. It transport i lemente En dividually. Syntax: map (function, Eteable) Example: num = [1,2,3,4] Squard - num = list (map (lambda x: x * x , numbour)) point (squed rum) ofp = [1, 4, 9, 16] Filter (): Onefourt an ituatar from Elemente of an ituable for which or function return tome. It beliefting Enclude scenart board on a condition. Syntax: filter (tenetion, Fterable) ment reten boolean value. reduce () Applie a function of two assuments can latively to the Hence of an Excepte, toon left to vight, so as to reduce -ew Heatle to single value. Syntax: from functook Pupart viduce; reduce flenetion, Steable [, Swithalizer]) exque from fenetool Empart vidure number - 51,2,3,4) point (Sum of-runbour) 0 p = 10

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