(10mm m) - 14 - 52 /2 05-09-25 Function As a parameter (first - class function) * In python functions and first class citizens meaning: * We can assign them to vouriables * Inte can pass them as a arguments to other functions and lose lose los * We can return them from other functions => This makes python Very tex? ble and helps in Code seusablify and functional programming O. ASSIGNING 9 FONCTION TO A MARIABLE: + We can store a function in a Variable and Use that Vollable to call it. Fg. det great ().

port (1 Hello", lake kome!") Msg = good 11 Assign tanction to Variable mages Il Calling through Variable Olp: Hello lalelcome 2). Passing a function as a parameter. We Can pass a functions to another functions as an Abgument. Eg det Square (x).

det apply-functifunc, trace): neturn fun (Value) point Capply-fun (square, 5) //25 3. Returning a tenction from Another Landin A function on seturna Another function as il's output (1-10) harden to make Eg' des outer (): det inner (): paried C" fello from Inner function") action inner Les lambde pure numer p desutt = outer () result () 11 Hello from Inno function lamble time to dung a som of them of RECURSIVE FONCTION !-* A secursive function is a function that Calls itself repeatedly 11ntill a base Cetapping) Condition is met. + It helps to slove problems that Can be boken into smaller, Similar at sub- problems Syn det tunc-name (paramèters). if Chase Condition): destron value clse: 11 Recursive Call atuon function name (modified - parameter)

For factorial Claring Recursion Coulovo tool control def tadonal (n): 11 Bask Condition if n=1:
continue

else: actuar not factorial (n-1) tight point (" factorial of 5: 1, tactorial cs)) 1) sont Lot Eg for Lambda function O. S = lambda num: num*num 3CT) 11 49. 2. Sum = lambda Sum 1, sum 2: Sum 1 + scum 2 Sun (213) 115 stell sepertedly thrill a bus (stepping) and got that constant evolve of entar Ath insided the to office office this "Continuous Dennes such for Carlinoral - Lorgitan , went noticel - marker