- · def denumire-functie (parametrii Jormali):
- opelare: s = functie (param)
- 5 = Junitie (param 1 = 3, payama = 4)
- : parametrue pot ourse val implicite:
- s = function () => s=0
- 5 = Junetice (m) => 3 = mie (ex:6)

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ex: dy suma = dif (x, y):

nutural X+y. X-y

$$3, d = suma - dif (3, 4) = \begin{cases} 3 = 10 \\ 4 = -4 \end{cases}$$
 $4 = suma - dif (3, 4) = 3 = (10, -4)$ 
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exi dif f(2) Hann II minopili in the BT aux = [x gar x im Lig x>0] L. cliar () # L= aux mu morge L. extend (aux) FUNCTIO CU MR VARIABIL DE PARAMETRIO suma (x,y); ? S = suma (1,2) S = Suma (1,2,3) S = Suma ( 1,2,3,4) def suma (\* mumore): - functio va punci me var de parame for × im mumuse 8= S+x return s dif suma (\* numere, praz): # sau (praz, \* numere) 5-suma (1434) for x in numera: 6 - Suma (1,73,4) prog = 4) if x>= prog:

FUNCTII ANONIME (LAMBDAS) lambda param: expresu ex: lambda x,y: x+y. ex: lambda m: swm([im) (e) for e im str(m)]) cale suma eje. lui m ex: s= (law bda x,y: x+y) (5,4). # 5 = 12 ; se apelectà im ac: houp ex; f = lambda x,y: x+y.... S= {(5,4) funcții care riturnecră suncții (dispakchivei) def disp (tip): if tip = = "suma": seturn lambda x,y: x+y elif hip == "produs": juturon laubda x,y: x.y. & = disp (" suma ") s= S(5, x) => s= 12. MECANISMUL DE CALLBACK · Sk = E Jk(i)  $f_{2}(i) = i$ .....  $S_1 = 1 + 2 + ... + m$   $S_2 = 1 + \frac{1}{2} + ... + \frac{1}{2}m$   $S_3 = e + e^2 + ... + e^m$ (3,11) = e.

def suma-generica (m, jk): for i im sangation ): 3=3+ gk(i) ruturn s; : (i) , { (i) : i mounter si = suma-generica (10, 11) 52 = suma - generica (10, lambda i:i) S3 = suma - generica (10, lambda i: 1/i) Sy = suma - generica (10, lambda i: e\*\*i) SORTARER DATELOR €lement → chie de sortare • Functie predefinité: sorted Colectie). => ¿ ex: sorted ([5,1,14,3]) = [1,3,5,7] Sorted ("test") = [ "+" , "e" Novem de 1 mtoarco o lista • clasa list --- sout () F= (154, 513) 12, 54, 133, 4, 103 S= sorted (L, key = x . x / 10) L= 5 10, 12, 213, 133, 154, 54, 43