-> Number Li add digits of the number untill the result will be come (2) (210) 5 mb HK SUM (210) One digit Sum=D; =) Sendo code Jahile (sum >10) tent (sum = =0) (1) h () [sum] (sum +0) 1. int n; sume o/ while ([n]=0]) (Whila ( tem 1=0) -, 15 3. (sum += n/610) <u>SUM</u> + = tom %.10 n/=10 \_ tim 1=10 5Um 10 (sum = 6) 15 - 15

Complekity (coding) code) - Sumforn 4(code), (time) ouriso computar (Java) lightent, stutially (2) Java - 10.01652 K (Pyrhon) high bul, dynamic 4 vate of change J(Asm) Low Level n=10 3) Bython HL, DT. 1.025 time complinity 2.02 south day of how

-) coustraints  $\frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)$ -> | sec -1108 operation Operations (worse) + fine limit \_\_\_\_\_ +in Ly value assign O(1) Ly arrang get O(1) Ly update at "Lelen O(1) 
X [ 3 m , 5 sel, 1 sel) for ( ; ) v-(m) tor(j , o=n) → (print (x)) > 0(25),0(31),0(49),0(n2) -1 (vint (n() -) O(n) (O(nxh) + O(n) + O(n))

 $\int_{0}^{\infty} O(1) \angle O(5n) \angle O(n) \angle O(nlogn) \angle O(n^2) \angle O(nl)$ 7 O(n3), O(Inlogn) (13) tor (=0+n) -0(h) for (j=1)  $\rightarrow (0(n) + 0(n-1) + 0(n-1) - ... 0(n-h)$ O(n x logn)