2. Climbing Stairs: (26/04/2024) Input: Lete suppose are unput ile an unteger 'n' n-no of steps + 2+2]cases Rale n = 1 if n=2 ruturn 2 outurn 1 conly one case) (pollibilities) of n>2 then step 1 no of ways to vep 2 I reach what steps = i augut. when his greater unan 2 we start a loop to see the no. of ways to climb the stair case - make à new variable of data type unt to store were no. of ways. int Colutian for C unt i = 3; i <= n; i++) Salutian = Rtip 1 + ltip2 since n=1 Jaineady Dry own: n=4 Iteration 1 (i = 3) coluttion = step1 + step 2 = 1+2 , ways to sceach lep

updatting step 1 = 2 step 2 = 3

=> 1 teration 2: (1=4)

colution = 2 + 3 - sways to = 5 step 4

Stop 1 = 3, etyp2 = 5 Since, n = 4 vis reached, 100 p vis done. and the Salutian = 5

Etep 1 = etep 2 -> vp dating
since etep 1 will
become the power.

step 2 = colution

(Since it now supsularle

the no. of ways to suach

the stop. Two sups

Lack.)

After the liter atian is complete pount the verselect terrangen: