DAY-10 TASK avantury Parallelism Chantung Parallelism is a Jundamental susperty of any quantum, alignithy bound of the quantum superposition Crinesple La Questury Parallelism in quantury computational devices allows one to obten several values of a certain Juneting the months (mi, his, ma) simultaneously It years that only one unitary light operation is reeded. Uf: { n. n., ... nny -> f f(n.), t(n.).
f(n)). Typical logical transforMuting (61 ogs 600) Consider, for example: f: (0, 1 9 -) (0,19 1 (121) 902 f(x) 1 y 02 f(n)) Uf 1 (n,y) - / n,y (n)

The first neglatur (n) is called the deta

in called the velve negrature (y and yout of) Simultaneous Computation of two volvey offly) 10> JO. 1(m) 1140) Uf 1 1 (0,0) + 1 (1,0) -> 1 (10, f(0))+ 12, (1) La uningerthe classical Parallel Computations where several scherges for Calculating the values of fly are used, we only one logical of beating However if we seasure the superposition State, de will obtain only ne volues flolor flil. But this con be dige by

