17:00-> The CSA This Paranelism Scenariols: one where the cary-in is resigned to reduce the propagation delay calculating in parallel for two possible possible sums in parallel. making the adder toskes select adder (csA) One where the carry-in is improves the per-formance by reduces the overair delay

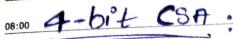
Tuesday 09

(129 - 236) Wk 20

-> In CSA, two RCAs are used in parallel to compute sums based on two different assumptions about the corry-in (o and 1) -) A Mux is used at each Stage to select 11:00 the correct sum and carryout from the pre-computed results based on the Carry In from the previous Stage. 13.00 > Carry -in refers to the carry that is fed a Specific block -> carry-out refers to the result of the next block Advantages - faster than RCA Simple to implement when compared disadvantages - Increased Area
power consumption

10 Wednesday

(130 - 235) Wk 20



Su Mo Tu We Th Fr 1 2 3 4 5 7 8 9 10 11 12 14 15 16 17 18 19 21 22 23 24 25 26 28 29 30 31 • •

