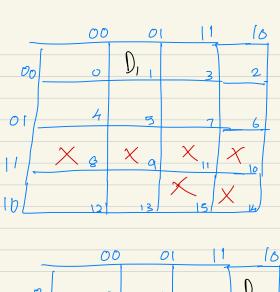
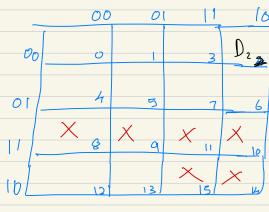
3rd Sept/4msept. Day 3 Encoder converts the binary inputs to unique binary codes. 1) (a) BCD to decimal encoder. Decimal digits are from o to9; whereas decimal numbers are all the numbers like 10, 11....

So in order to convert BCD to decimal encoder we need 4 bits.

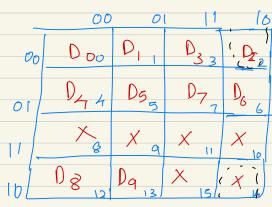
(:0-9 can be represented W/ 4 digits) BCP to decimal A₃ A₂ A₁ A₀ 0 0 0 0 0 0 0 1 0 0 0 0011 0 0 0 0 1 000 11 1 0 0

equations for A3, A2, A, 2A0 don't carps from 10,11....15 00 01 10





Similarly
all would
be like this
& combining all
in 1 k-map



on simplifying $D_0 = A_3 \cdot A_2 \cdot A_1 \cdot A_0$ $D_1 = A_3 \cdot A_2 \cdot A_1 \cdot A_0$ $D_2 = A_2 A_1 \cdot A_0$ Capter grouping)

...

then you can simplify the Citchit above accordingly ac per these expressions.