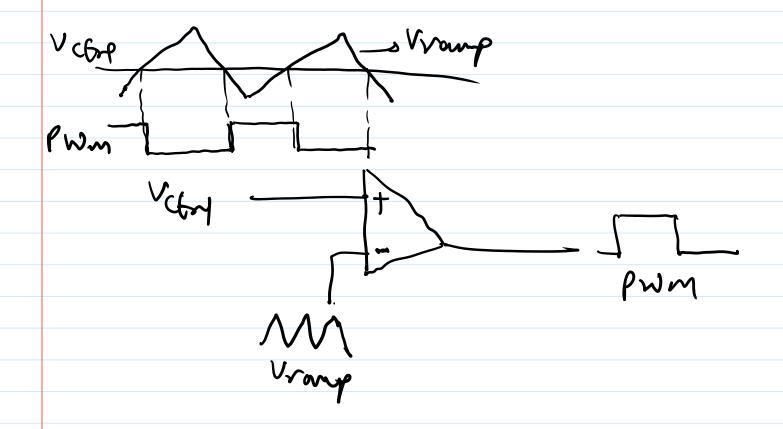
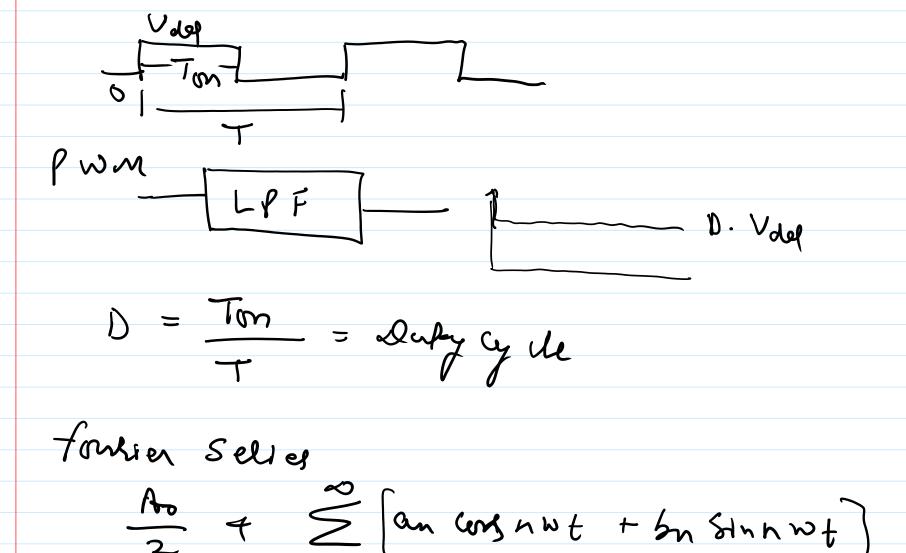
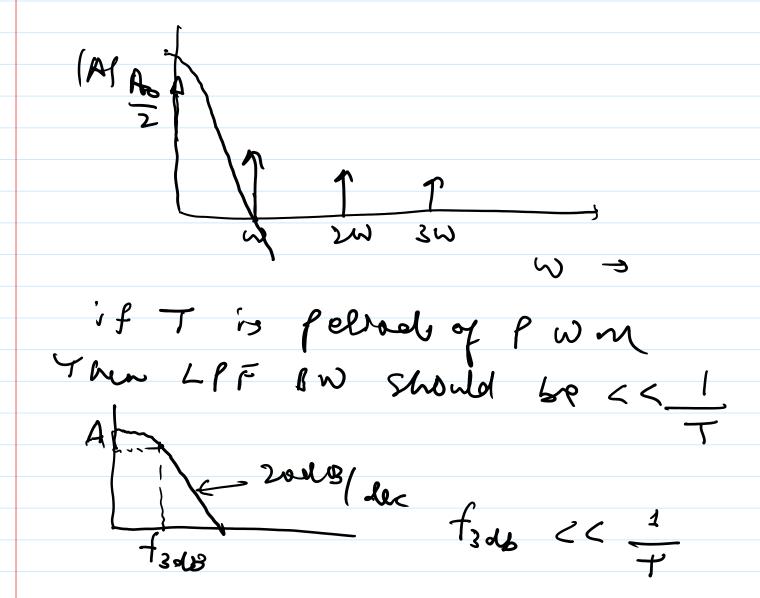
PWM Signal

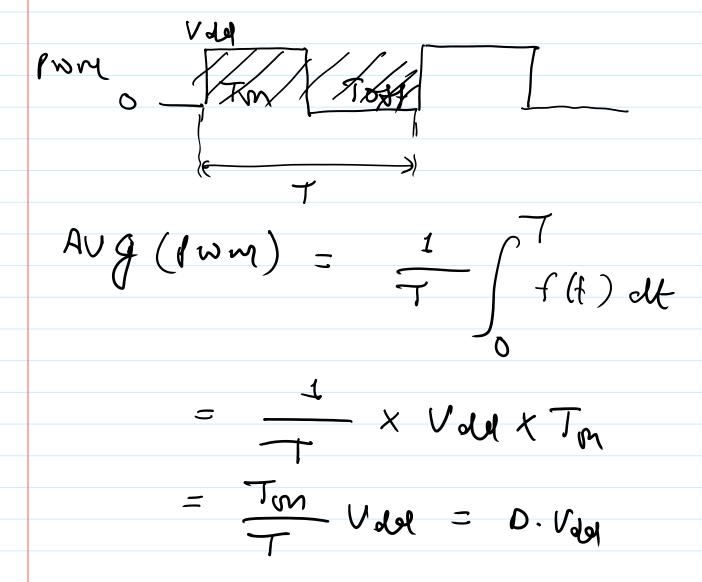
PWM -> Pulse Width Modulation



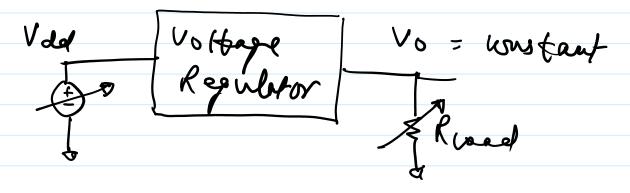








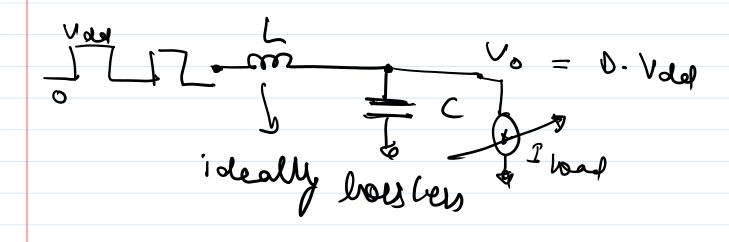
Pwn is used to implement voltage regulator

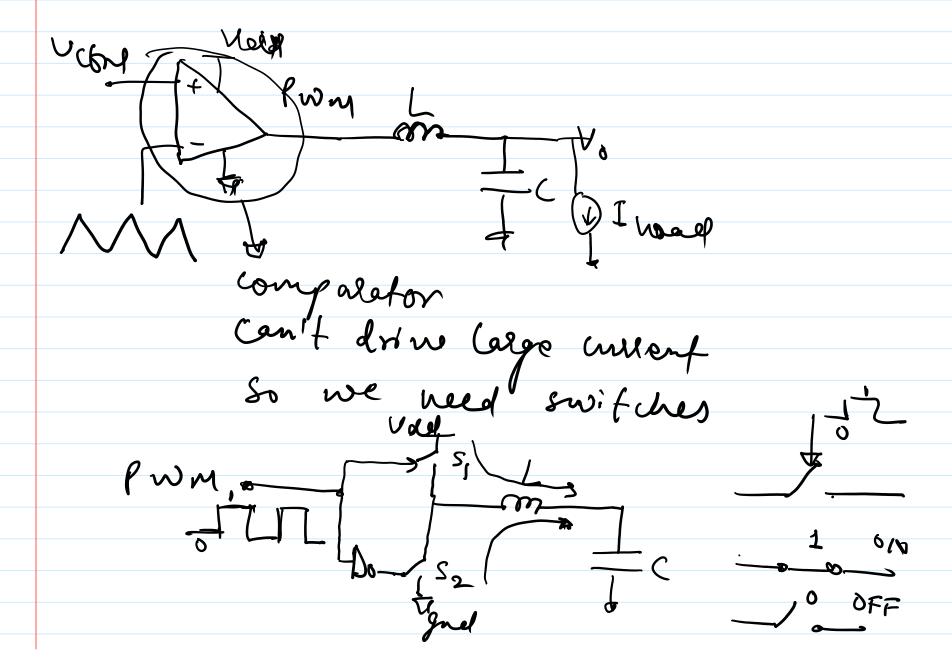


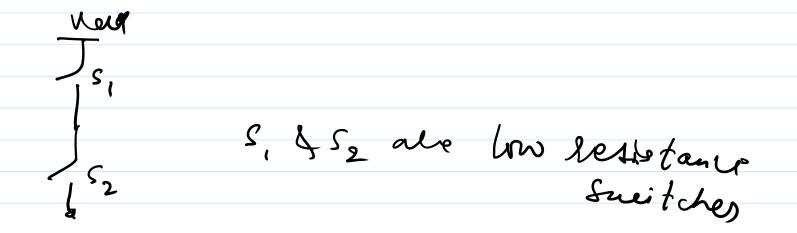
$$V_0 = D \cdot V_{0} = V_0 = \frac{2.5}{5} = 0.5$$

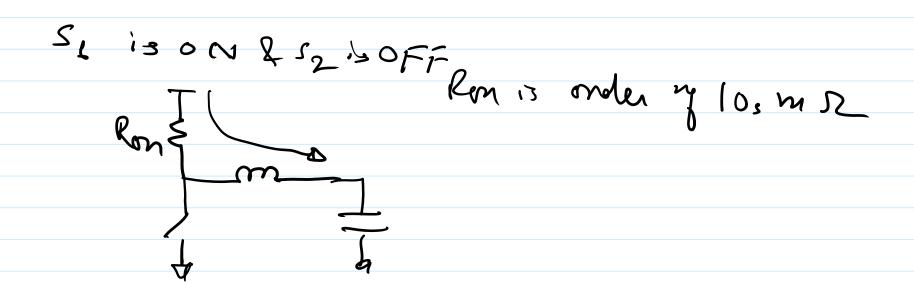
$$Vdel = 10 V$$
 $0 = \frac{2.5}{10} = 0.25$

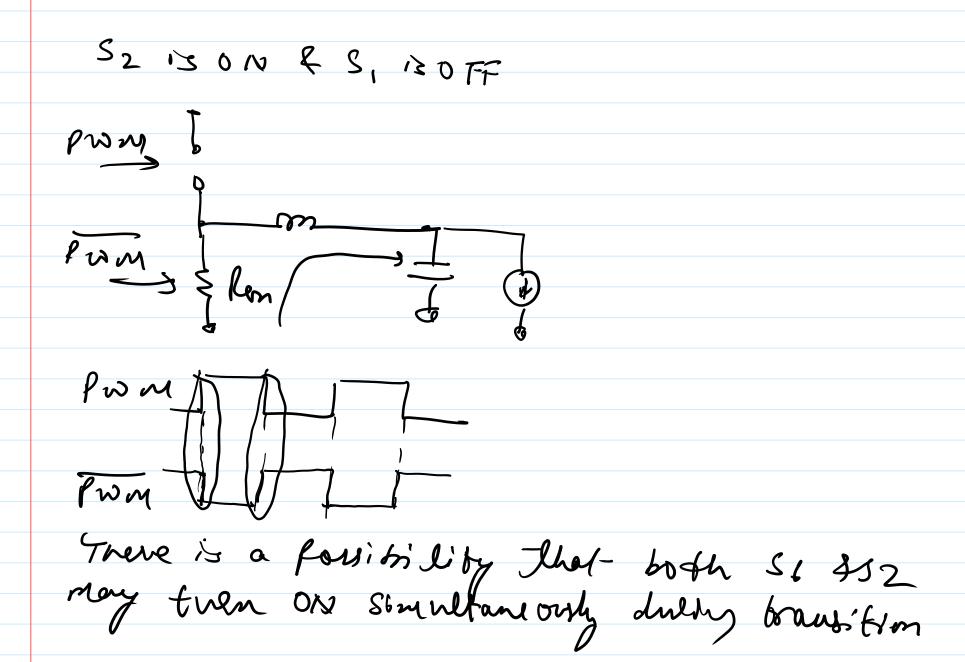
vehich means under valying vous we need to valy D to keep vo worstant we can't use RC filter for regulator due to IR doop



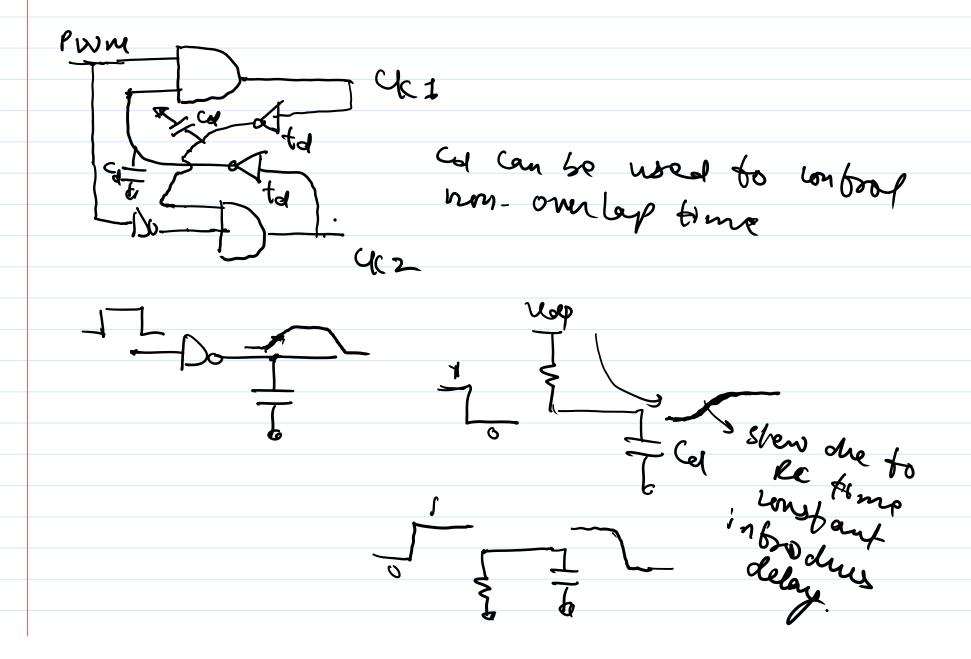








We need to ensule that both sneitches never turn on simultaneously =) Break before make non-overlap doug , hon-oullap time.



Regulator

