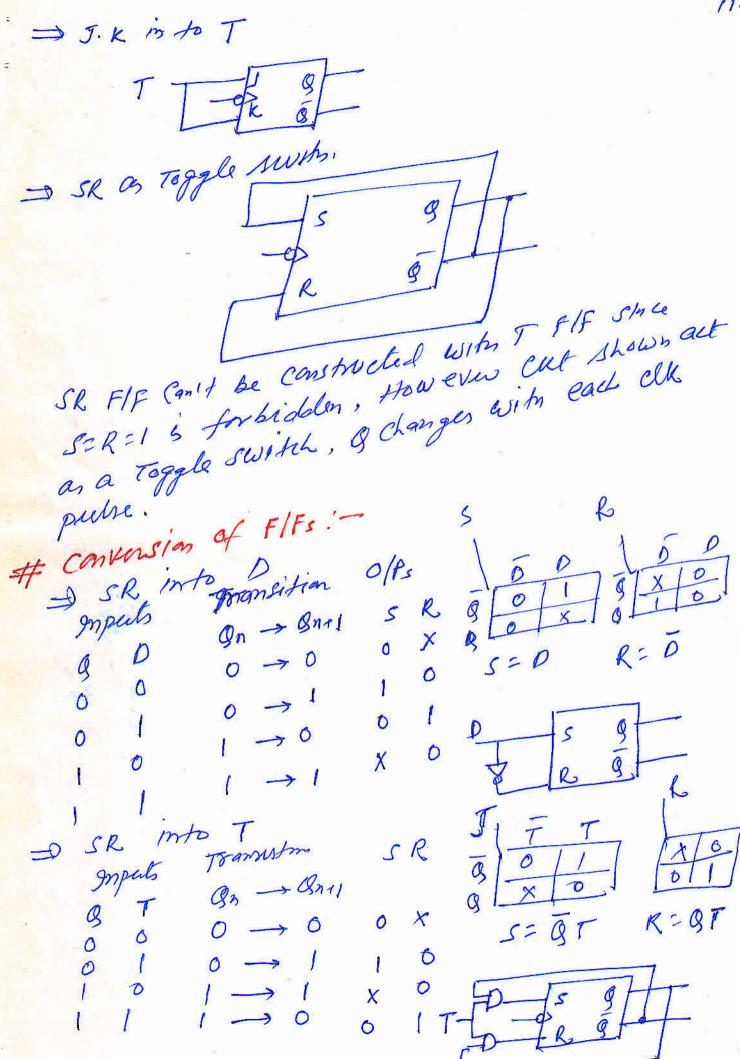
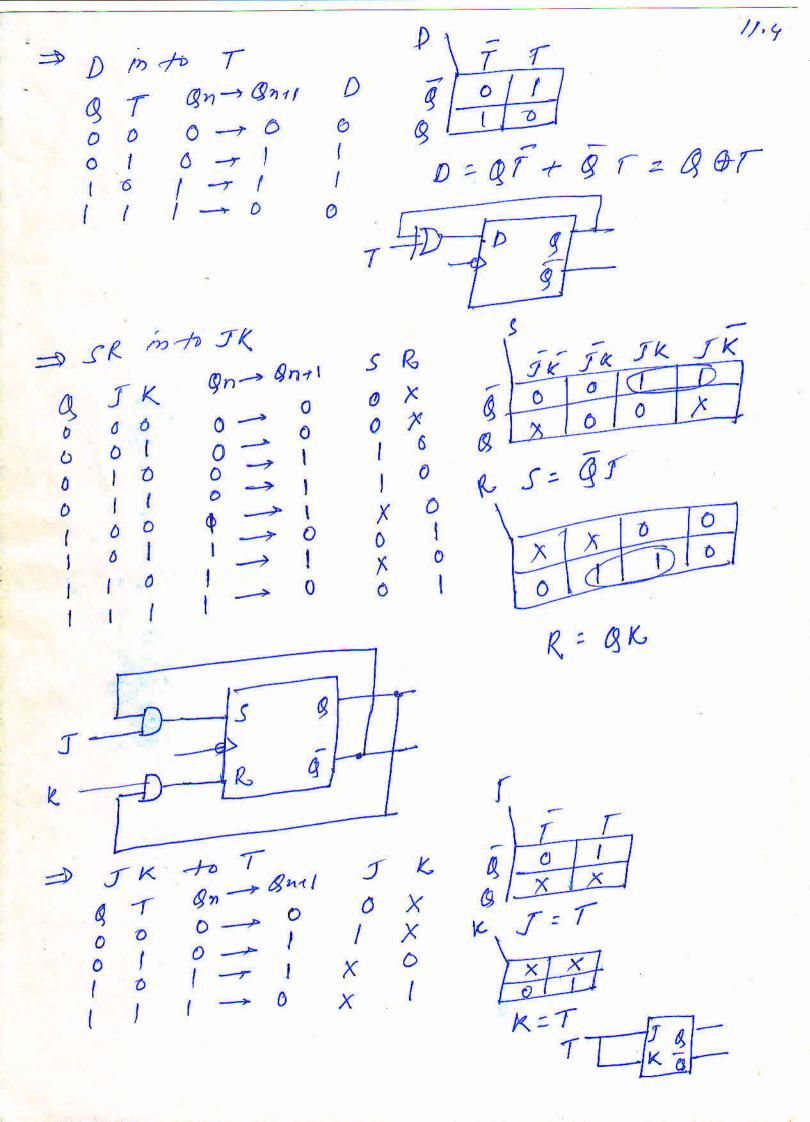
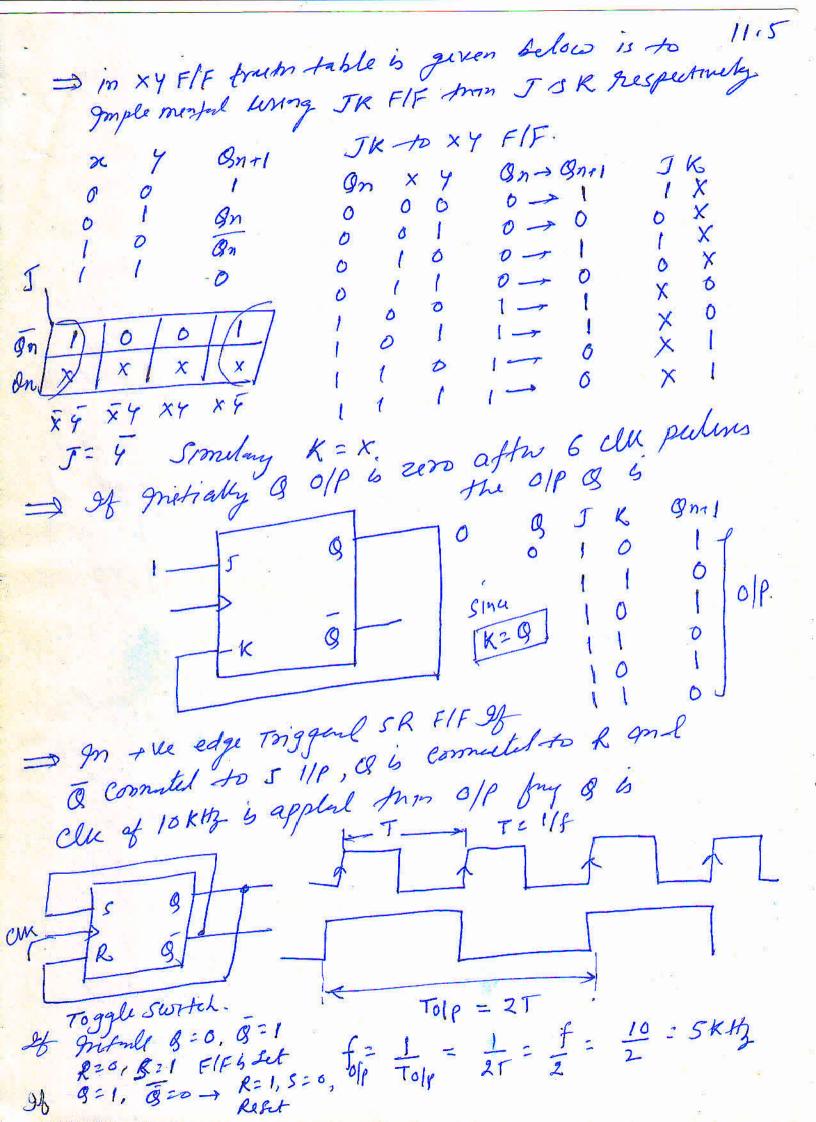
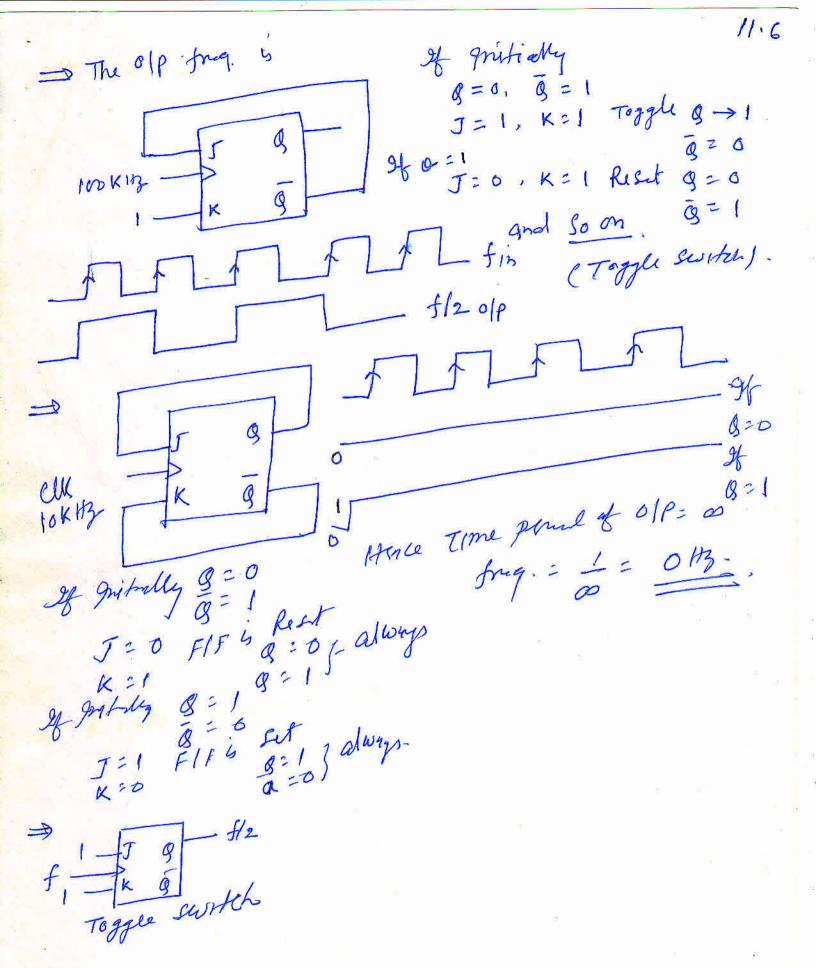


```
⇒ SR FIF
                    gn gn11 SR
   S R In Gnel
                       0
                    0
    0 0 gn
    Ī
   0
  0 1 1
                            X
                               0
      0
  t + i
 J JK FIF
                     In Gres J
  0 0
  010
  0 1 1 0
 100
                     On On11
→ D FIF
  T FIF
                    gn gnil
   T In In1
# Inter connection of FIFS. -
   JK/RS Into D
```



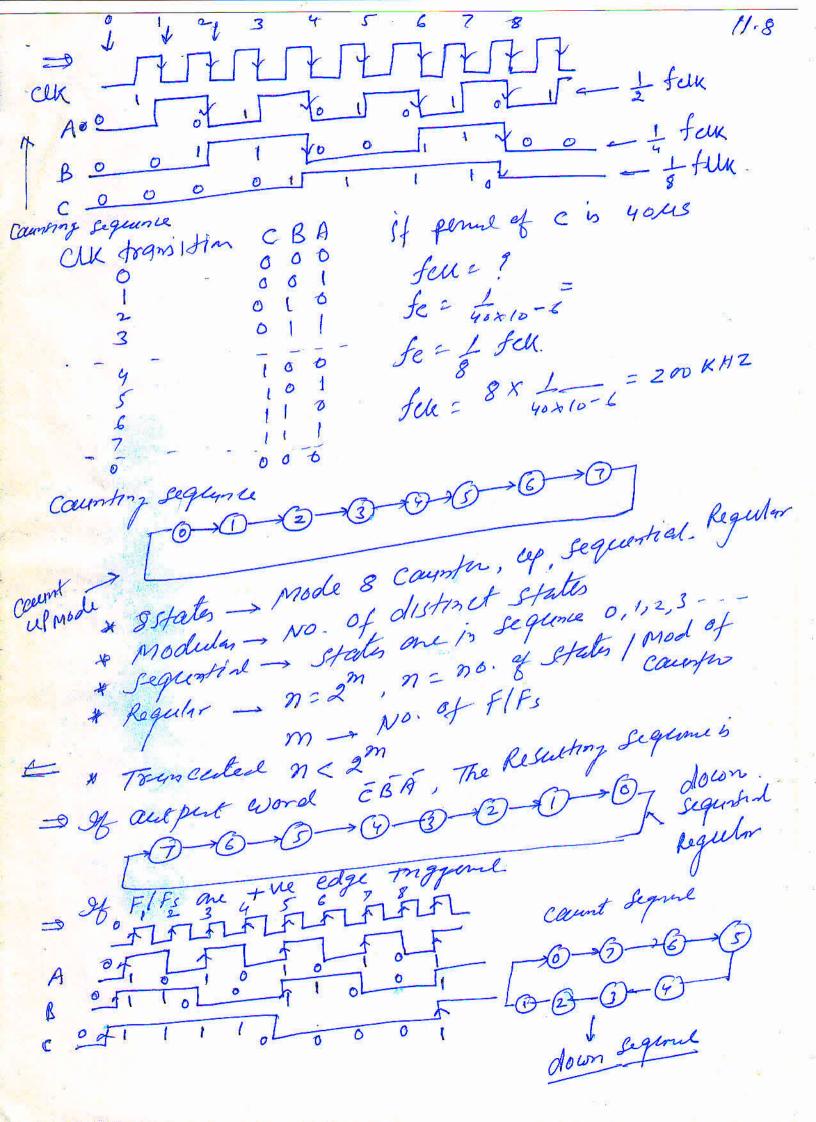






counters: - counters can be used as an Instrument

for measury time and therefore plus or frag. There are two types of counters. => Asyncronaus/Ripple/Serial country: - Simple and straight forward in operation * Require minimum Harlware Has speed limitation the previous FIF gond of Cach FIF is triggered by the previous settling time so the counter Have cumulative settling time & Suffer from glike > parallel/syncronas causto: and so the Settler- 1. and so the selling time equals delay of the single # Ripple/Asyncronaus countri: - whom off of a FIF is usul as a clock for ment stage FIF. Imm it is called a single p Overall Pd = E gradindust Pd of FIFS. ripple factor counter. cen to A tok of Country If each FIF han Pa of 10ms mm own all CBA: 000 quitially Pd & 30ns. [45B when enfrond club



if country: - Exerter the literal # in Asyntrum countr [Mod] [Mod MN cauntus
cascaell H fry I Made) string & flk If in ripple country Pd of each FIF than time pund of the elle Tem > n tpd FF fell & ntpl fman = ntpd f-Inbite f 22 22 mors myself shaqis Mrs State = 22 # for mod on countr. f - loncolon canto aller all A court the line of the same of