

$$R_{2} \leq \frac{1}{10} (420) \times (0.5 \text{ km}) = 20 \text{ km}$$
 $V_{3} = 1.7 \text{ V} = \frac{(21 \text{ km}) (10 \text{ V})}{R_{1} + 20 \text{ km}}$
 O_{2} ,

 $1.7 R_{1} + 35.7 \text{ k-} \Omega = 210 \text{ k-} \Omega$

vi=(100) 計 ロット 計 1

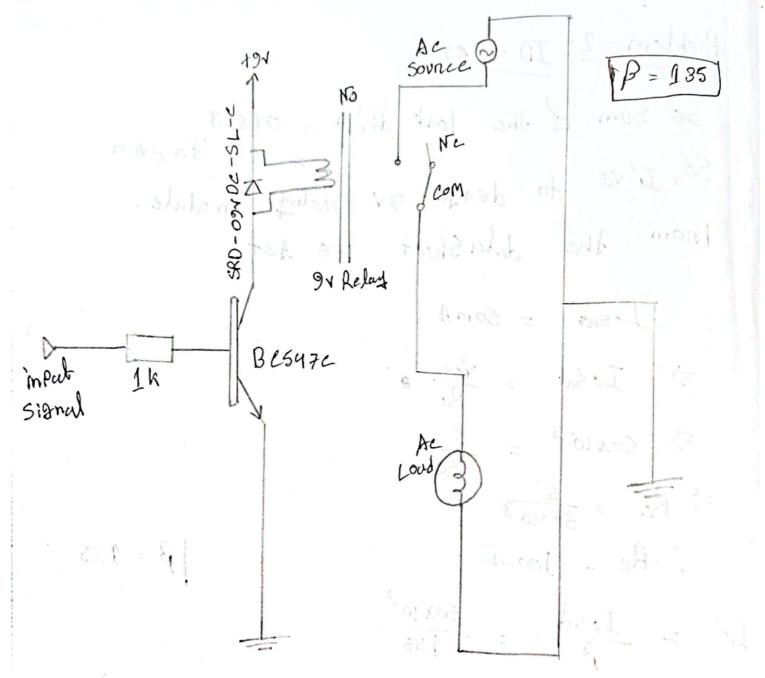
$$RC = 500 \text{ k-} \text{L}$$

$$RC = 2 \text{ k-} \text{L}$$

$$R_1 = 102 \text{ k-} \text{L}$$

Problem - 2: IO = 053 So Sum of the lant digita = 0+5+3 = 8, it's even So, I've to design or relay module. From the data Sheet we get. Iesal = Som A 15-347c => Icsat = Vec $25 \ 50 \times 10^{3} = \frac{5}{Rc}$ => Re = 50 x103 $\beta = 135$: Rc = 100-2 $Ic' = \frac{I_{esul}}{B} = \frac{50 \times 10^{-3}}{135}$ = 370.37 UA - 29/60 - 092 = sidmira bloom tolog :st TBZIBI - SA . AZOSZ = OA: Nowar sichnish Vec = 54 Lex, IB = 740-74 MA Plit never : O signed IB = Nec - NBE
RB FINANCE (1) => 740.74×166 = 5-0-7

: RB = 5805 -2.



Note: Relay model number = SRO - 09 VDC - SL-L Revistor values: RB = 5805_1, Re = 100-12 Vcc = 51

PIN namer! (1) Signal
(1) Ground

(11) Vec