Mame - Fariha Tajnim Hedita ID-2023200000 548.

$$T_{0} = \frac{T_{0}}{\beta} = \frac{2mA}{110} = 0.01818 \text{ mA}$$

$$= 18.18 \times \frac{10^{3} \text{ mA}}{\sqrt{ee} = 10}$$

$$VE = \frac{1}{10} VCC = \frac{1}{10} \times 10 = 1V$$

$$V_{Re,VCC} - VCE - VE = 10 - 5 - 1 = 4V$$

$$\therefore R_{C} = \frac{VR_{C}}{IC} = \frac{4V}{2\times 10^{3} A} = 2000 LA$$

$$= 2kAL$$

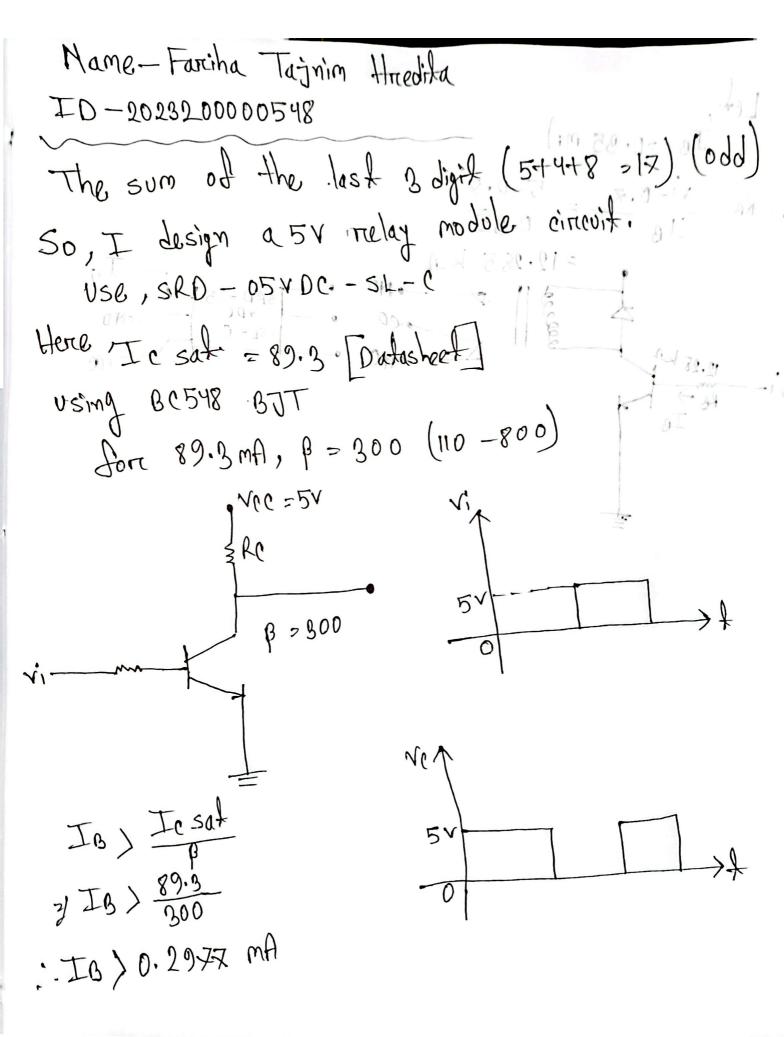
$$V_{B} = V_{BE} + VE = 0.7 + 1 = 1.7V$$

$$How, V_{B} = \frac{R_{2}}{R_{1} + K_{2}} \times VCC$$

$$= 21.72 = \frac{5.5}{R_{1} + 5.5} \times 10$$

$$= 2 \frac{10}{R_{1} + 5.5} \times 10$$

$$= 2 \frac{10}{R_{1}$$



while minimal white TB / 30. 35 MA  $\therefore R_{B} = \frac{V_{1} - 0.2}{Z_{B}} \frac{5 - 0.2}{0.35000} \frac{1}{\text{ref}} \frac{1$ relym Volz =12.285 KA (009-011) 008-4 · (110-800)