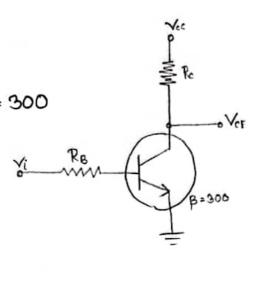
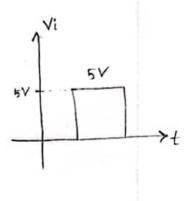


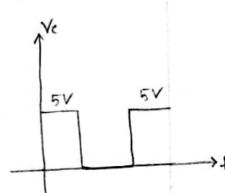
## Name: Shoalb Ahsan Chowdhury ID: 2023200000449

## Problem:02 Design a nelay module -

The sum of the lost 3 digit of my JD = 4+4+9=17 (odd) So. My melay module Cincuit Voltage = 5V







$$J_{B} > \frac{J_{Csat}}{\beta}$$

$$\Rightarrow J_{B} \Rightarrow \frac{89.3}{\beta}$$

$$\Rightarrow J_8 \Rightarrow \frac{89.3}{300}$$

$$R_{B} = \frac{\sqrt{i - 0.7}}{I_{B}}$$

$$= \frac{5 - 0.7}{0.595} \text{ k}\Omega$$

$$= 7.226 \text{ K}\Omega$$

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fig: Relay driven.