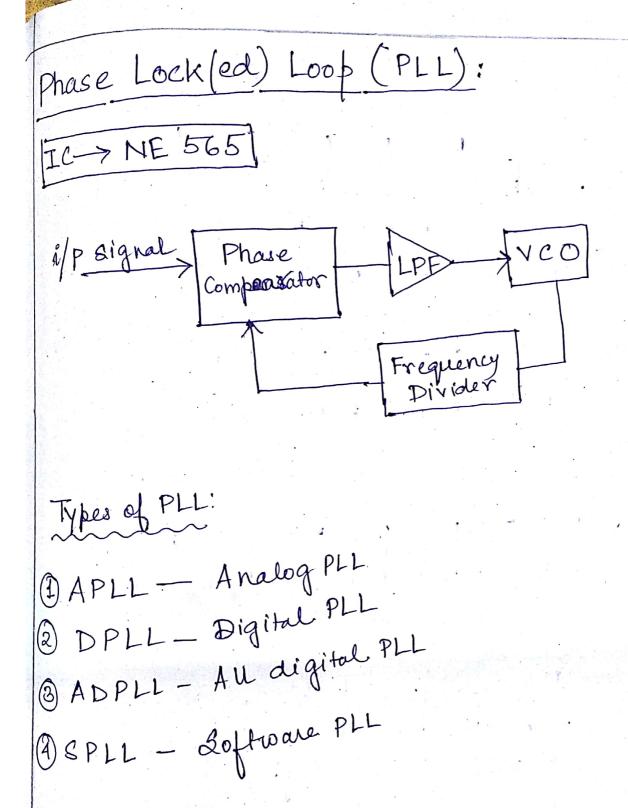
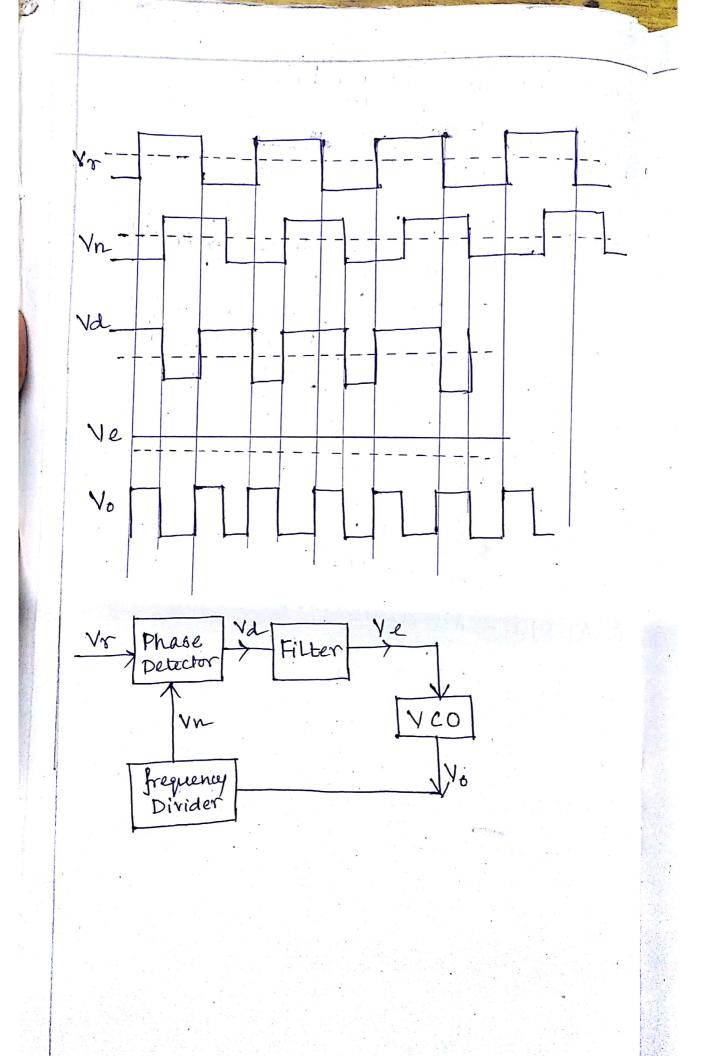


$$Ve^{2} \frac{10 \times 10^{3} \times V^{+} - 10}{10 \times 10^{5} \times V^{-}} = \frac{10 \times 10^{3} \times 12^{-} - 10 \times 12^{-}}{11.5} \times V^{-} = \frac{10 \times 12^{-} - 120}{11.5}$$

$$f_0 = \frac{2}{10\times8250\times10^{-12}} \left(\frac{120/11.5 - Vin}{120/11.5} \right)$$

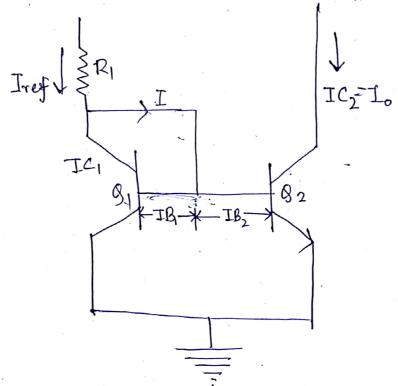




Pin Diagram of NE-565:

Current Mirror:

The input current will be reflected at the cutput point/pole.



$$IC_1 = IC_2 = IC$$

$$IB_1 = IB_2 = IB$$

$$IC = \beta I_B$$

$$Iry = IC_1 + I$$

= $IC_1 + IB_1 + IB_2$
= $IC_1 + IC_1 + IC_1$
 $B + B$
= $IC_1 \left(\frac{B+2}{B} \right) B >> 2.$

Iref = IC,=IC

Bince Iref = IC,
The output current is a reflection of the +Ip
Input current -

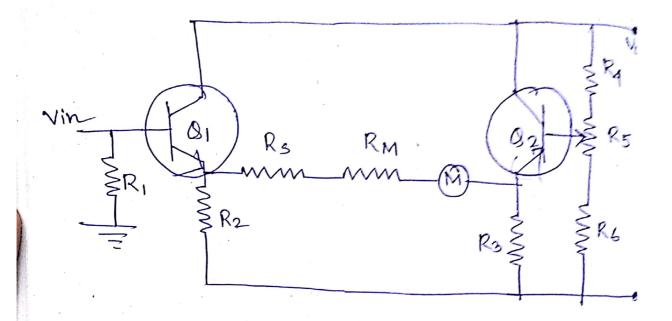
JC

Emitten-Follower Voltmeter:

Emitter Follower Voltmeter is used to measure low voltage. It reduces loading effect.

Vin 8, Ri RM M

Circuit Diagram!

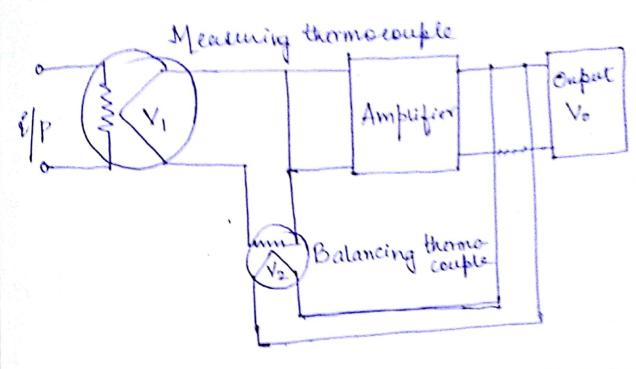


Assignment 1: (22.2.19):

1) Write down the working principle with suitable diagram of Programmable Gain Amplifix (PGA)

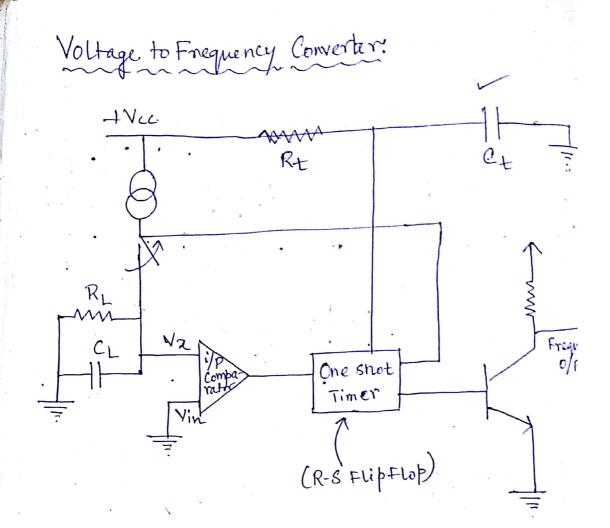


True r.m.s voltmeth:-



An emitter fellewer rollmeter circuit has R= R= 39 and Vec = +12V

- a) Aletermine I2 and I3 when E=OV
- Calculati the meter circuit votage when E=1V and when E= 0.5V.



Ct is the timing capacitor.

