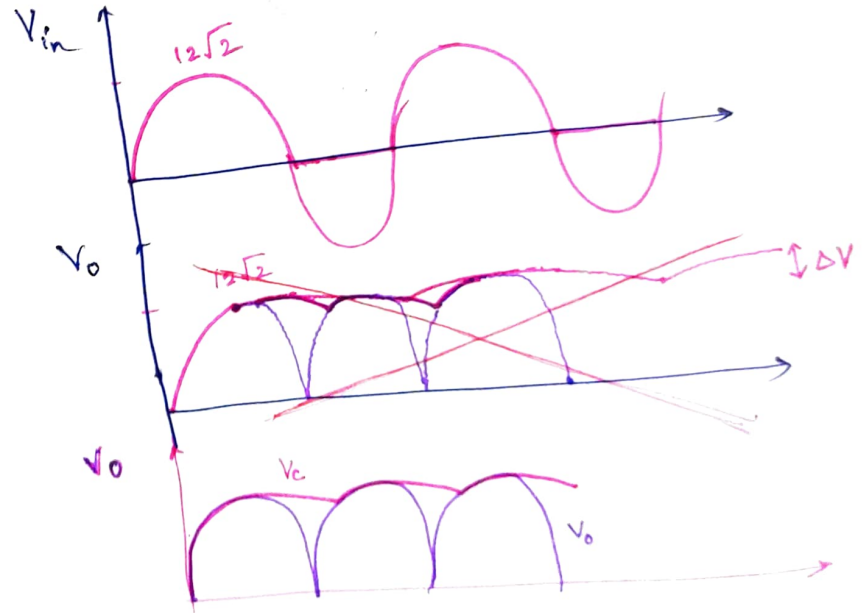
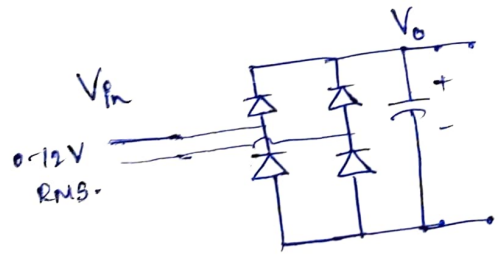
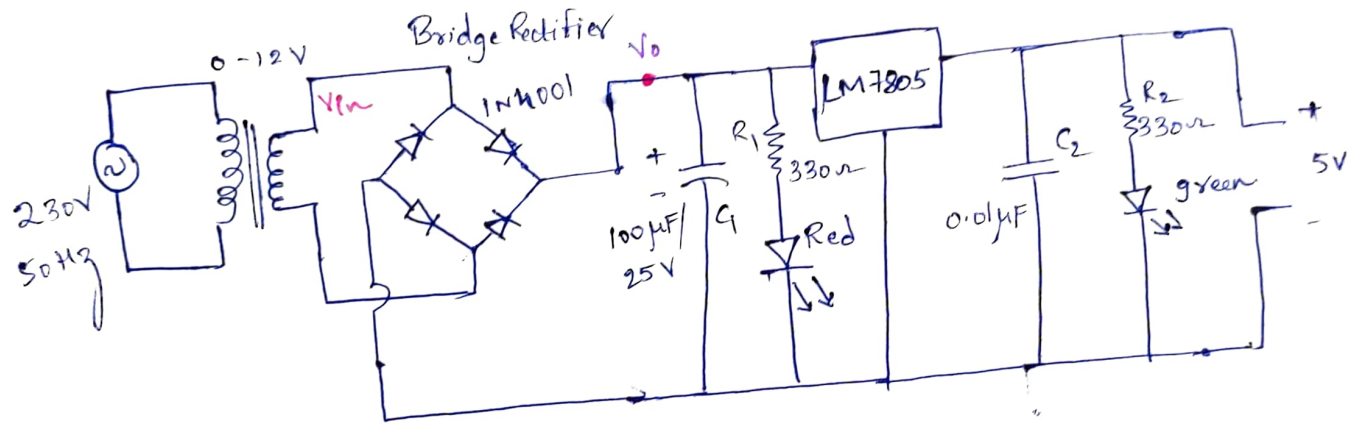


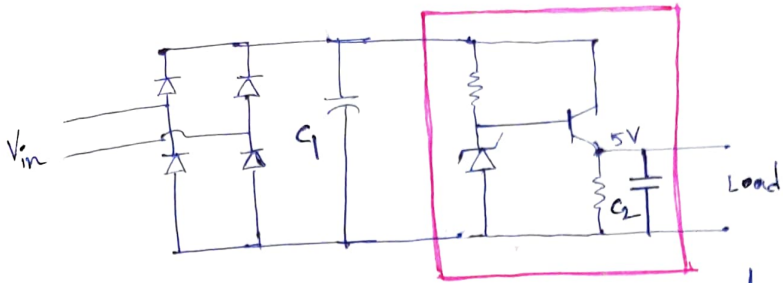
4

Power Supply :-

* Using linear Power Supply ; as it is Robust , cheap and easily Repairable;



LM7805

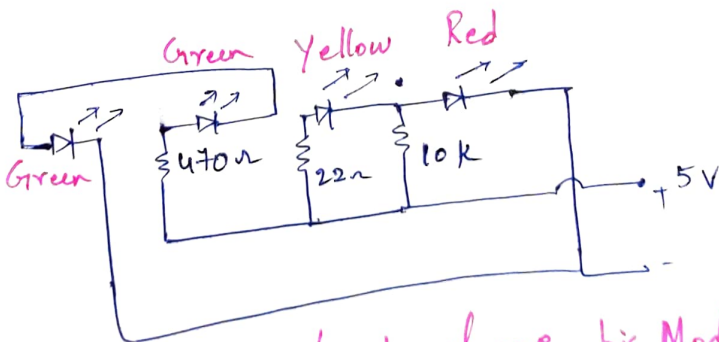


* When V_{in} is +ve cycle; C_1 charges and reaches maximum voltage; when V_{in} is zero; C_1 discharges. C_1 must be designed such that Ripple voltage is less.

* C_2 is required to cancel the high frequency noise.

* Since it is Battery Powered; if Battery Voltage drains; it must maintain const voltage. So including feed back for linear Regulated Power Supply, voltage can be made constant.

* Making a Battery Level Indicator; detecting with LEDs.
If Red glows; Battery has to be charged. So $5V$ charger has to be plugged in.



* Based on LED's; consumer has to charge his Module.

Green indicates \rightarrow Full Battery level

Yellow indicates \rightarrow Draining

Red indicates \rightarrow Drained out