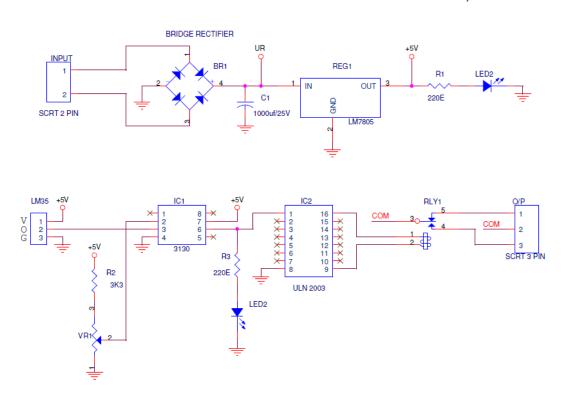
During summer season, the temperature at night is initially quite high however as time passes, the temperature starts dropping. After falling asleep, the metabolic rate of one's body decreases. Thus by then we start feeling cold but due to we being asleep will not be aware thus unable to switch OFF the fan and any such cold feeling if awakens us then that disturbs our sleep cycle and this problems creates a situation of need to use blanket thicker than required to bear the actual room temperature at night because of artificially created extra coldness.

This project Switch ON/OFF the 220V operated fan depends up on calibrated temperature This circuit uses a LM35 temperature sensor along with a CD 3130 comparator

Circuit:

HEAT SENSOR AUTOMATIC FAN START/HB11



Code: HB11

This project about Temperature Detector circuit based on LM35 Temperature Sensor. By which is a temperature sensor and could be used to switch ON Fan when temperature goes beyond a preset value. In this circuit the output of LM35 is fed to the negative pin of comparator of CD3130. The positive input is connected to a preset VR1 of value 10K. This preset is used to set the reference temperature. If output of LM35 is less than V reference than the output of comparator is low.

When the temperature exceeds the reference temperature, the output of the comparator becomes high and trigger ULN2003 (Relay driver), and thereby FAN via Relay and wise versa.



Size: 8.5* 5 cm

***** Caution Apply 12 AC via 12V Step down transformer