**Project Name:** Automatic Fan Control without PDB Line

**Objective**: To know automatic control system using relay switching. This project is very useful for home, offices and any other places. When PDB line off, at this moment quickly start automatic control fan.

**Equipment:**

* DC Battery – 5V 1 piece
* Relay 5V – 1 piece
* Diode 1N4007 – 1 piece
* Resistor 1k – 1 piece
* LED – 1 piece
* Motor 5V – 1 piece
* Some wire

**Circuit Diagram:**

**Working procedure**

A first prepared relay. Relay coil(2,4) terminal connect (vcc).

This connect is show by circuit diagram. This relay terminal no. 5 is a common point. Without applying voltage, (5,3) pins are N/C or (5,1) pins are N/O.

A diode 1N4007 one side is connected by relay point 2 and another side is connected by common point. Then connect a resistor 1K and LED is connected load fan.

**Application of this project**

Application of this automatic fan control system is very useful without PDB line. Application of this project are given below.

1. Home

2. Office

3. Restaurant

4. Market/ commercial spaces