PROJECT IN BRIEF:

 The project work "Intelligent Light and Smart Fan" is done with infra red (IR) light with   respect to temperature variant. It has the advantage that include low power requirements like Laptop, telephone, and personal assistants , low circuitry cost, simple circuitry. It is an automatic dual process. This KIT is intelligent enough that it could detect moving bodies as well as, a KIT which is smart enough that it could sense the temperature and regulates the fan speed. Thus with less, single power consumption at normal AC voltage, we can performed the operation of both the bulb and the fan. It makes our life more safety as it can detect the presence of any person.

CONCEPT:

* When a person comes in the room, the IR signal will hit the body of the person; the reflected signal will hit the IR sensors and will activate the controller. The light and the fan in the will be activated i.e. the devices are on automatically.

* At the same time a temperature sensor will sense the temperature of the room and it will regulate the fan depending upon the some threshold value.

* When the person   comes out of the room the devices i.e. both light and fan will be automatically off.

Software **:** Keil uVison
Language: C+ language.