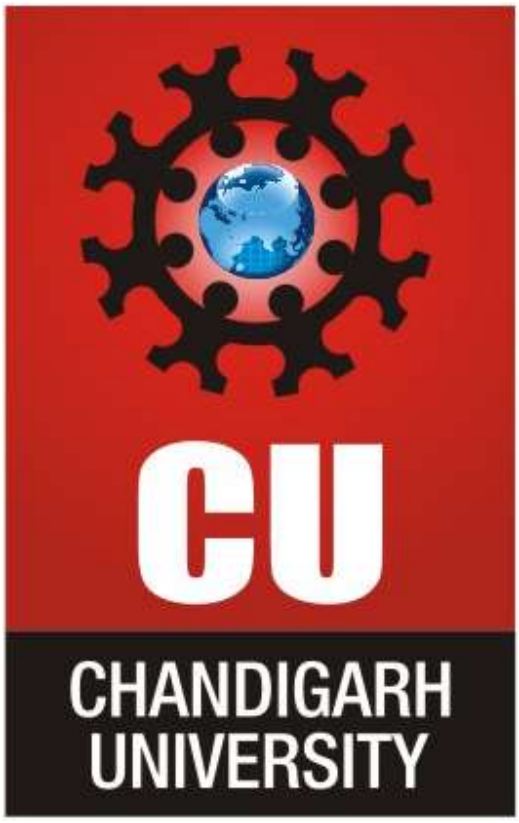


SUBJECT : Basic Electrical and Engineering Lab

SUBJECT CODE : ELP 118

SUBMITTED BY :

NAME : Amod Kumar Singh

UID: 19BCS4509

BRANCH : BE CSE(IOT)

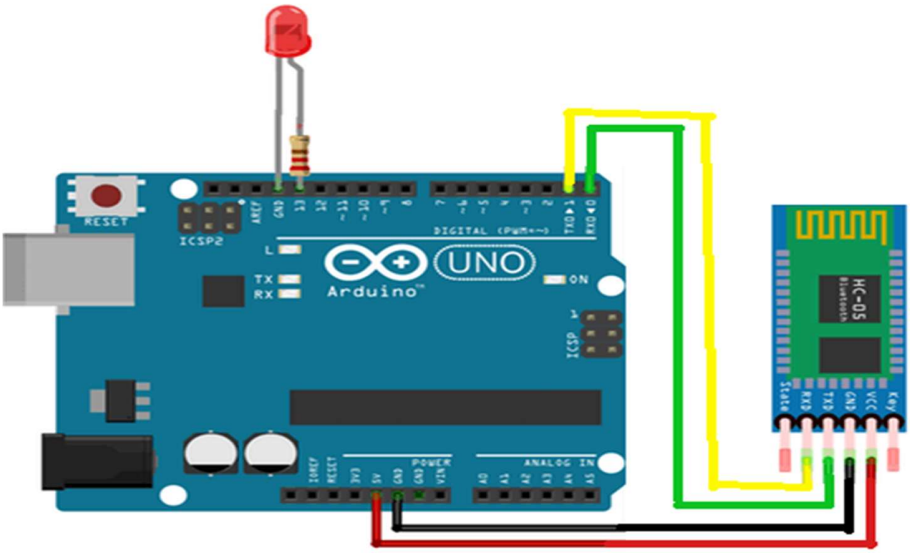
SECTION : IOT 1 ,GROUP A

SUBMITTED TO :

ANSHUL SHARMA

Exp 4 Design a smart phone controlled light system.

Circuit Diagram :



THEORY

For making smartphone controlled light system we require an Arduino Uno, Bread Board , Bluetooth module, resistor, connecting wires and led.

Concept Used:

For controlling lights from the smartphone we require a wireless medium . so here we use a Bluetooth module to send the signals from smartphone via Bluetooth ,for this an application should be installed in the smartphone to send the signals to the Bluetooth module.

Learning and observations:

We have learned many skill by this experiment

How to send signals to Bluetooth module from smartphone using mobile application.

Problem and Troubleshooting:

Sometime program is compiled successfully but not upload in the Arduino board . It can be over come by checking the selected desird board and the port if not resolved then change the data cable.

Precautions:

1 Before uploading the program to the arduino the TX and RX pin should be disconnect.

2 Make sure that the area where you are performing the experiment must dry .

3 Make sure the board and port both are selected correctly.

Learning Outcomes:

Learned new concept of wireless Bluetooth module and the connection made to send and receive the signals