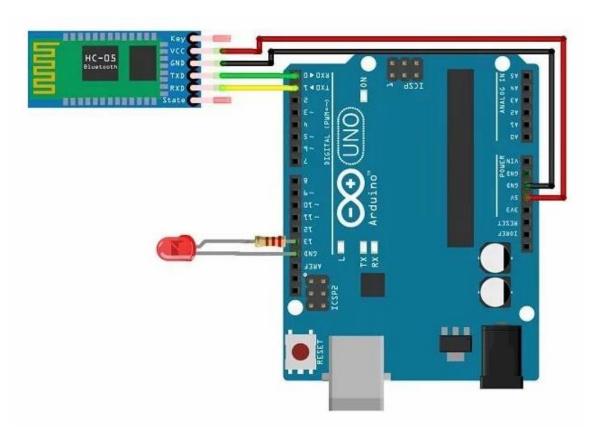
EXPERIMENT:5 Bluetooth Interface-phone controlled light system

DIAGRAM:-



THEORY:

CONCEPT USED-

- 1)I used concept of how to use P-N junction diode and bluetooth.
- 2) How resistance is used in a circuit.
- 3) Logic code for Arduino UNO, using Loop statement.
- 4) How to work with Breadboard.

LEARNING AND OBSERVATIONS-

- 1)I learnt to use Arduino Board and how to code it for bluetooth.
- 2) Arduino board has Digital pins and Analog pins.

Digital pin provides Input as well as Output, but Analog pin provides input only.

3)The Arduino board has ~ sign in Digital pin side which is also known as Pulse Width Modulation(PWM).

These pins help's in getting analog results with digital means.

- 4)How to work with circuits on breadboard.
- 5)Since the LED can bear a limited supply of voltage so we have used resistance in series

It can not work with 5V.

6. Digital Pin provides 5V Power supply to the circuit.

PROBLEMS AND TROUBLESHOOTING -

→ While during connections it is important to do all connection in a sequence manner otherwise for loop will not be used while during program.

PRECAUTIONS -

- → Wiring should be done properly, neatly.
- → Do not use excess wires try to reduce number of wires used.

LEARNING OUTCOMES –

We learn to code and how to make circuit using ardiuno.