Course Name: Internet of Things Lab **Course code:** 21CSP-344

Experiment – 3.3

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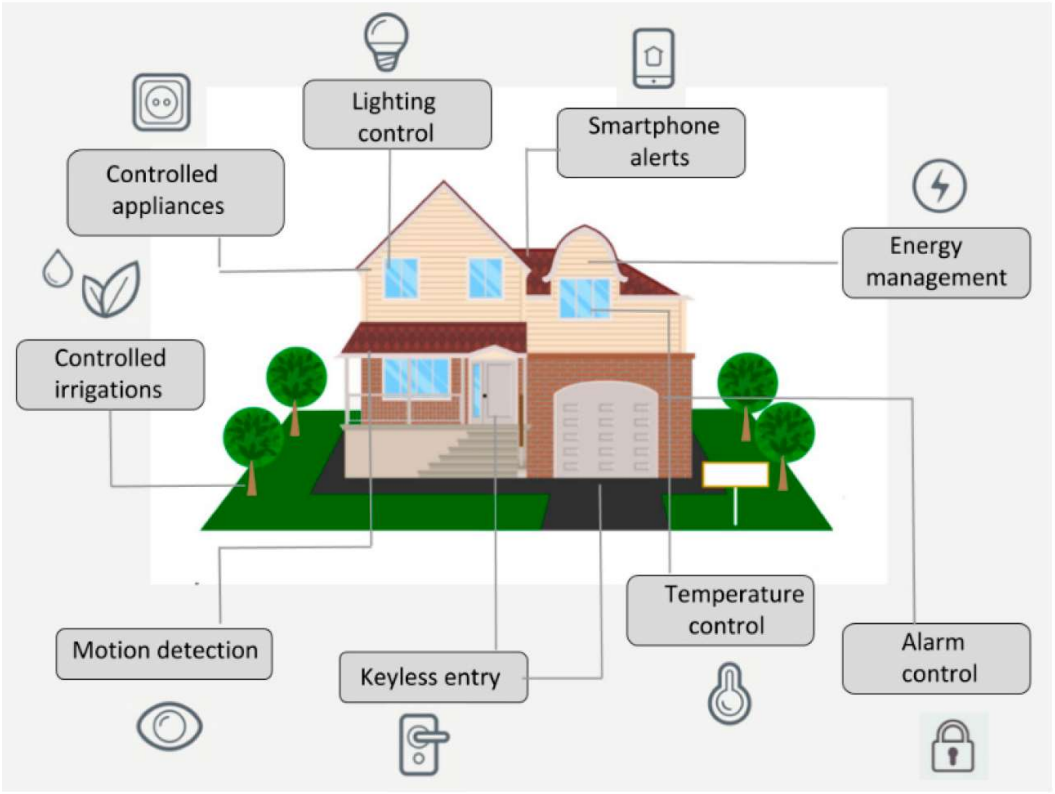
Semester: 5th **Date of Performance:**
Subject Name: Internet of Things Lab **Subject Code:** 21CSP-344

Aim: To create a smart home project, using App based control system.

Components used:

- 8 Male/Male Jumper Wires
- 1 HC-05 Bluetooth Module
- 1 (5 mm) LED: Red
- 1 Arduino UNO
- 1 Resistor 1k ohm
- 1 Arduino IDE
- 1 MIT App Inventor

Theory:



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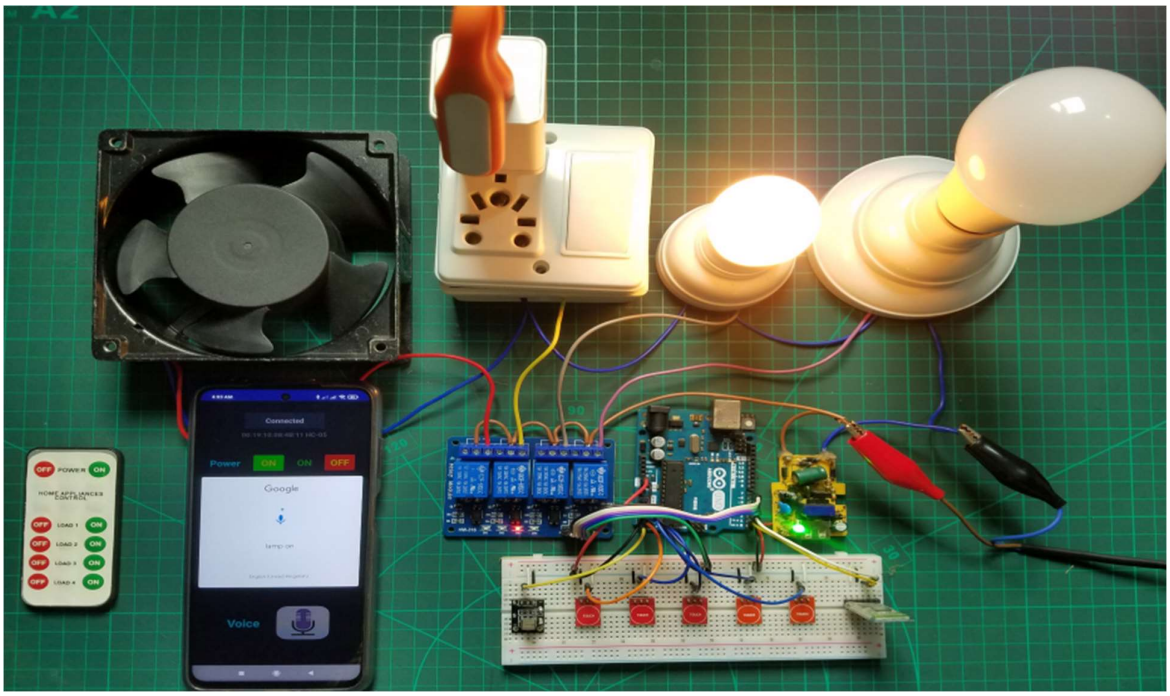
In our modern era, the convenience of remote controls has simplified our interactions with electronic devices, notably televisions. However, delving into the realm of home automation sparks curiosity about extending this control to household appliances like tube lights and fans. This experiment explores Arduino-based home automation using Bluetooth, offering a cost-effective solution that empowers users to command electronic devices without the need for a dedicated remote control.

By utilizing a smartphone, individuals can efficiently manage all their electronic devices, saving valuable time in the process. Recognizing the significance of time in our lives, this innovative system introduces Bluetooth-enabled home automation, allowing users to control appliances within the Bluetooth range directly from their mobile phones, demonstrating the continuous evolution of technology to enhance efficiency and convenience.



Learning outcomes (What I have learnt):

- Proficiency in Smart Home Project Development
- Competence in App-Based Control System Implementation