Lab Worksheet #5
CA5305 (Internet of Things)
October 2021 – January 2022
Instructor: Dr. M. Deivamani
Due: Thursday, December 24, 2021(11:59pm)

Task 1: Create a sketch that fades the LED by using different ways and demonstrate. Also, observe the difference by varying the rate of fade in and fade out.

Task 2: Modify the Task 1 code in such a way that one fades in and other one fades out by using two or more LEDs.

Task 3: Modify the Task 1 program to control the intensity of the LED based on the keyboard input.

Task 4: Create a sketch that makes a "3-way lamp" using the LED and button to let the user turn on the light at 100/50/25/off.

Task 5: Create a sketch that makes a LED flash at a rate relative to the potentiometer position(resistance) and try to include a serial output of the potentiometer value and flash rate.

Task 6: Create a sketch to measure the humidity and temperature using Temp46/DHT11 and display the same in the serial monitor.