NIELIT, Gorakhpur

Course Name: A-level (1st Sem.)   Subject: IoT

Topic: Assignment 1   Date: 13.05.2020

1. Write a program using LCD, LEDs, Buzzer and keypad to simulate a password based security lock system. User enters 4-digit password and if the password is correct buzzer and Green LED is put on. But if the password is incorrect Red LED is put on. After three incorrect attempts Red LED along with buzzer blinks continuously.

2. Write a program to interface LCD and DHT11, displaying the value read from sensor DHT on LCD. (

3. Write a program to interface DHT11 or any other temperature sensor, DC Motor, to exhibit a real-life situation that whenever temperature rises above a threshold value the DC motor (representing fan) starts and when temperature falls below a value, the motor stops.

4. Write a program to interface LCD and Bluetooth module, to exhibit the values received from mobile handset via Bluetooth on LCD.

5. What are Things in IoT domain? what is meant by connected things.