IoT Control

Fatema Ahmed Hossny

❖ Lab Instructions:

- Each team should get the equipment (NodeMcu board , breadboard, LEDs , LM35 Temperature sensor, buzzer, jumpers) to do the lab experiments
- 2. Each team should fill the file with their Names, IDs and upload their work (Code, circuit image)
- 3. The completed file will be uploaded on Google Classroom by maximum due date of one week (before the next lab)

Note: Only one team member will upload the file on Google Classroom

❖ Lab Assignment:

Implement a circuit Controlling a LED, LM35 temperature sensor, and Active buzzer with NodeMCU

❖ Paste the code here:

```
float temp;
const int buzzer = 8;
void setup()
{
 pinMode(A0, INPUT);
 pinMode(11, OUTPUT);
 pinMode(13, OUTPUT);
 pinMode(buzzer, OUTPUT);
 Serial.begin(9600);
void loop()
 temp = analogRead(A0);
 temp = ((temp*5)/1024);
 temp = (temp-0.5)*100;
 Serial.print("Temperature = ");
 Serial.println(temp);
if (temp > 0 \&\& temp <= 59)
  digitalWrite(11, LOW);
  digitalWrite(13, HIGH);
```

```
noTone(buzzer);
  delay(1000);
}
if (temp > 59)
{
  digitalWrite(13, LOW);
  digitalWrite(11, HIGH);
  tone(buzzer, 1000);
  delay(1000);
}
```

Upload the Circuit here:

