

ASSIGNMENT--1
Mahath Amma Institute of Engineering & Technology
Electronics And Communication Engineering

Title: SmartFarmer - IoT Enabled Smart Farming Application

TEAM ID:PNT2022TMID47645

```
const int lm35_pin = A1;      /* LM35 O/P pin */
int Buzz= 8; // Define Buzzer pin
int PIR= 3; // Define PIR pin
int val= 0; // Initializing the value as zero at the beginning

void setup() {
  pinMode(Buzz, OUTPUT);
  pinMode(PIR, INPUT);
  Serial.begin(9600);
}

void loop() {
  int temp_adc_val;
  float temp_val;
  temp_adc_val = analogRead(lm35_pin); /* Read Temperature */
  temp_val = (temp_adc_val * 4.88);    /* Convert adc value to
equivalent voltage */
  temp_val = (temp_val/10); /* LM35 gives output of 10mv/°C */
  Serial.print("Temperature = ");
  Serial.print(temp_val);
  Serial.print(" Degree Celsius\n");
  delay(1000);

  if( temp_val>61)
    digitalWrite(Buzz, HIGH); // Turn Buzzer ON

  val = digitalRead(PIR); // The value read from PIR pin 3 will be
assigned to 'val'
  if(val == HIGH){

    digitalWrite(Buzz, HIGH); // Turn Buzzer ON
    Serial.println("Movement Detected"); // Print this text in Serial
Monitor
  }
  else
  {

    digitalWrite(Buzz, LOW);
    Serial.println("Movement not Detected");
  }
}
```

