## ASSIGNMENT--1 Mahath Amma Institute of Engineering & Technology

## **Electronics And Communication Engineering**

## Title: SMART SOLUTIONS FOR RAILWAYS

## **TEAM ID:PNT2022TMID47639**

```
const int lm35 pin = A1; /* LM35 O/P pin */
int Buzz= 8; // Define Bizzer 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 */
 equivalent voltage */
 temp val = (temp val/10); /* LM35 gives output of 10mv/^{\circ}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");
}
}
```

