//Code for the Master board

#include<Wire.h>//This library is used for I2C communication

int x;

void setup() {

Wire.begin();

Serial.begin(9600);

}

void loop() {

x = analogRead(A0);//Reading value from Potentiometer

x/=4;

Wire.beginTransmission(9);//9 here is the address of the slave board

Wire.write(x);//Transfers the value of potentiometer to the slave board

Wire.endTransmission();

Serial.print(x);

delay(1000);

}

//Code for the slave board

#include<Wire.h

int x;

void setup() {

pinMode (13, OUTPUT);//Connect LED to pin 13

Wire.begin(9);//9 here is the address(Mentioned even in the master board code)

Wire.onReceive(receiveEvent);

Serial.begin(9600);

}

void receiveEvent(int bytes) {

x = Wire.read();//Receive value from master board

Serial.print(x);

}

void loop() {

if (x > 88) {//I took the threshold as 88,you can change it to whatever you want

digitalWrite(13, HIGH);

delay(200);

}

else{

digitalWrite(13, LOW);

delay(400);

}

}