R M K COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSIGNMENT-1

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SMART HOME AUTOMATION-SECURITY ALARM

CODE:

```
int Buzzer = 6;

int inputPin = 2;

int ledPin = 5;

int pirState = 1;

int val = 0;

void setup() {

pinMode(ledPin, OUTPUT);

pinMode(Buzzer, OUTPUT);

pinMode(inputPin, INPUT);

Serial.begin(9600);

}

void loop() {

val = digitalRead(inputPin);

int value_ldr = analogRead(A0);

if((300>value_ldr) && ( val==HIGH) ){

If (val == HIGH) {

digitalWrite(ledPin, HIGH);

digitalWrite(Buzzer, 1);
```
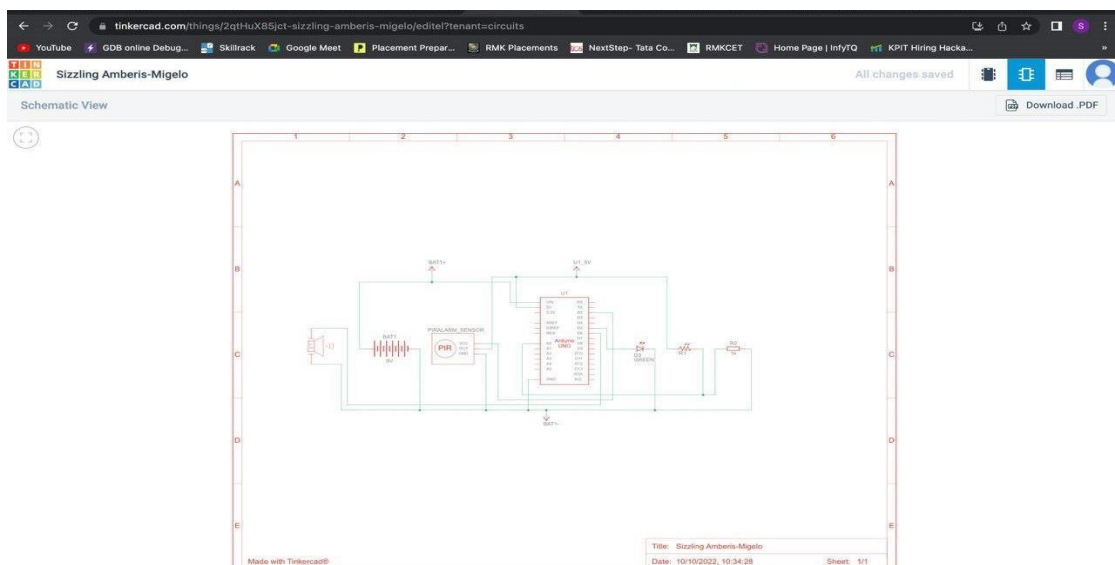
```
delay(5000); if (pirState=1) {

Serial.println("Motion detected!");

pirState = 0; } }

else {

digitalWrite(ledPin, LOW);

digitalWrite(Buzzer, 0);

if (pirState=0){

Serial.println("Motion ended!");

pirState = 1;

}

}

}

}
```
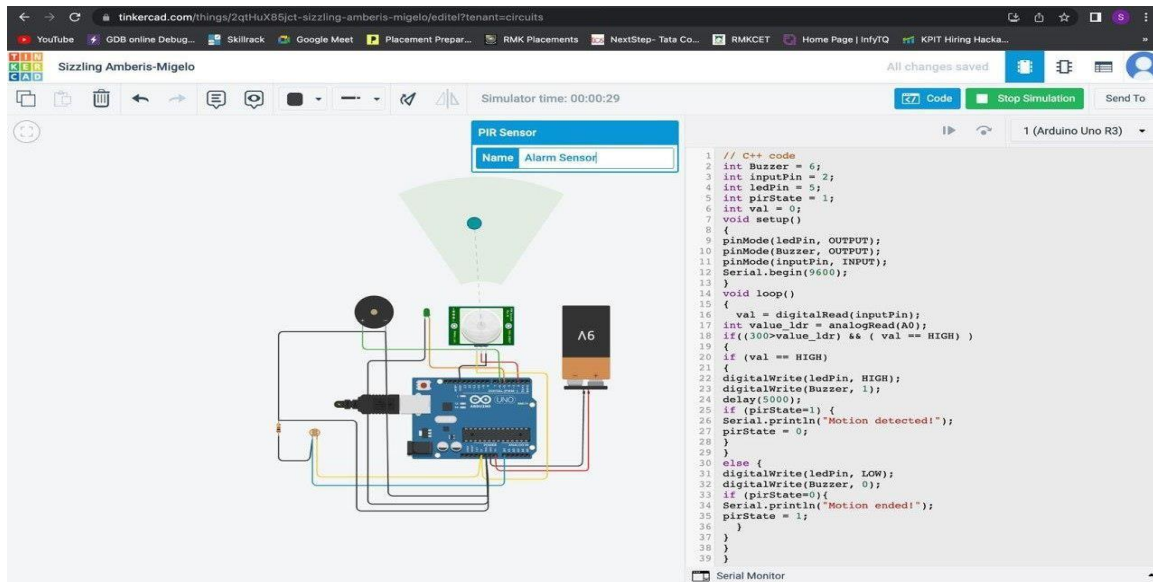
SCHEMATIC DIAGRAM:

OUTPUT:

INSIDE THE SENSOR FIELD

OUTSIDE THE SENSOR FIELD