

R M K COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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ASSIGNMENT-1

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SMART HOME AUTOMATION-SECURITY ALARM

CODING:

```
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);
}

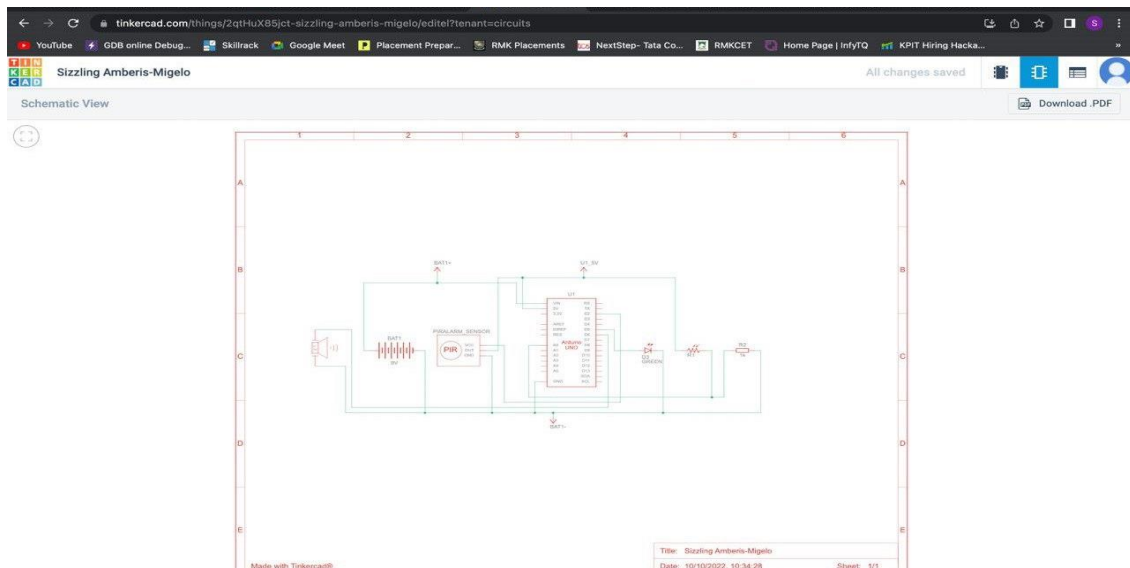
void loop() {
  val = digitalRead(inputPin);
  int value_ldr = analogRead(A0);
  if((300>value_ldr) && ( val==HIGH) ){
    If (val == HIGH) {
      digitalWrite(ledPin, HIGH);
      digitalWrite(Buzzer, 1);
```

```

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;
  }
}
}
}
}
}

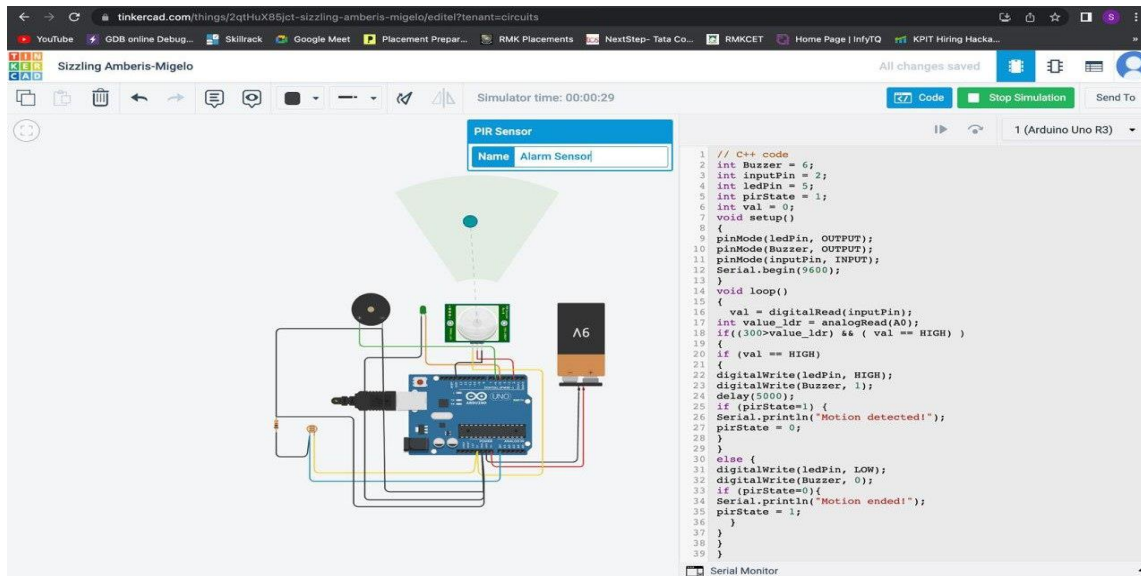
```

SCHEMATIC DIAGRAM:



OUTPUT:

INSIDE THE SENSOR FIELD



OUTSIDE THE SENSOR FIELD

