

Components Basic

Search

Resistor

LED

Pushbutton

Potentiometer

Capacitor

Slideswitch

9V Battery

Coin Cell 3V Battery

1.5V Battery

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Code

Stop Simulation

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Temperature Sensor [TMP36]

Name 2

Components
Basic

Search



Resistor



LED



Pushbutton



Potentiometer



Capacitor



Slideswitch



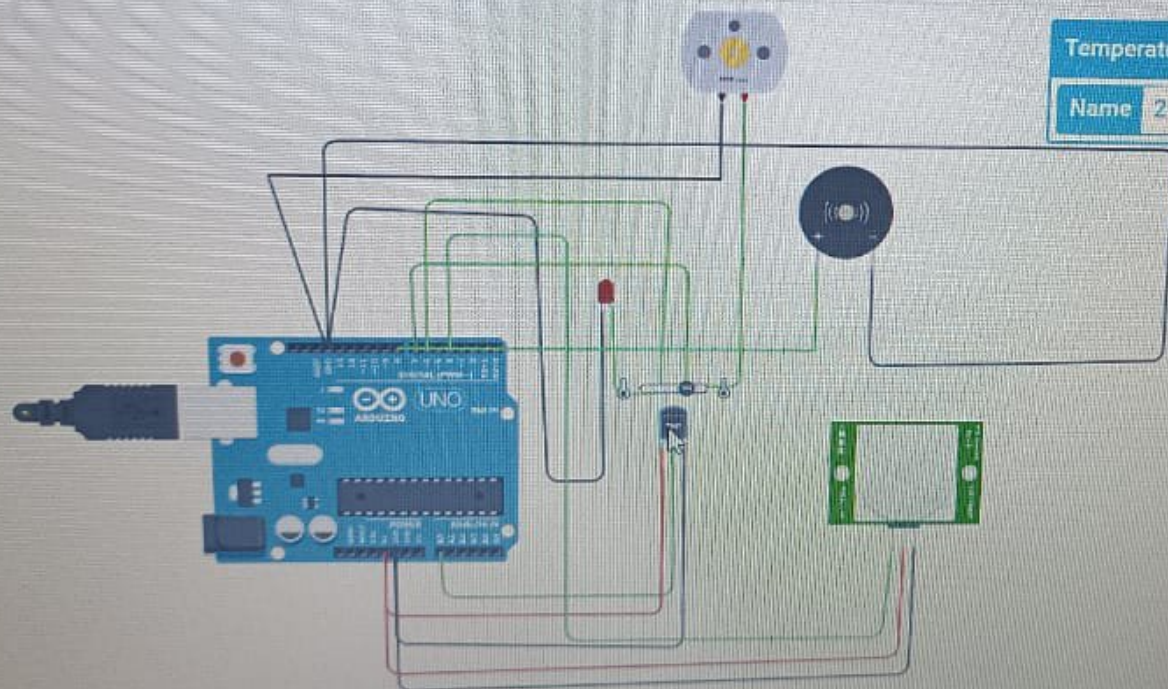
9V Battery



Coin Cell 3V
Battery

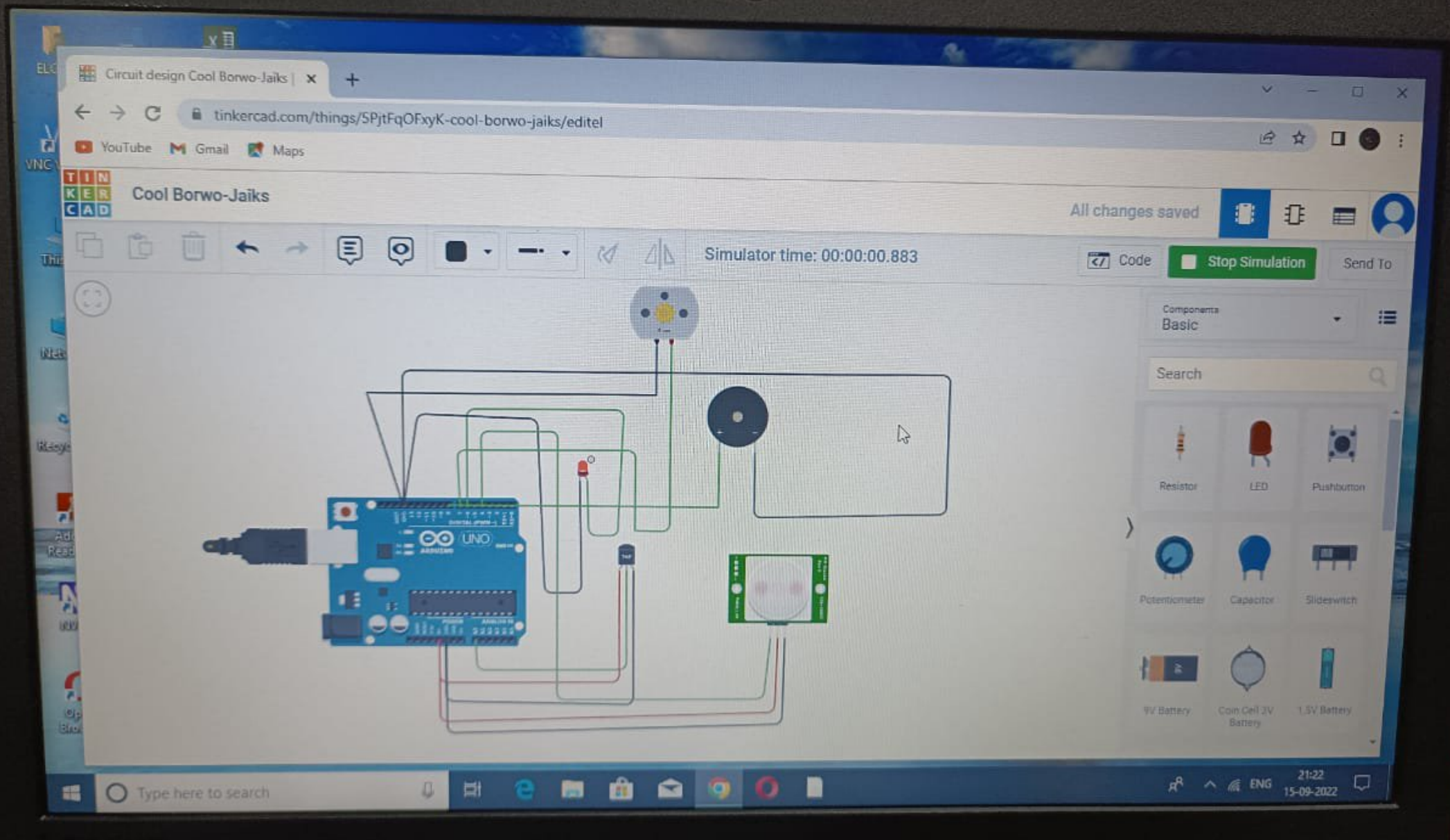


1.5V Battery



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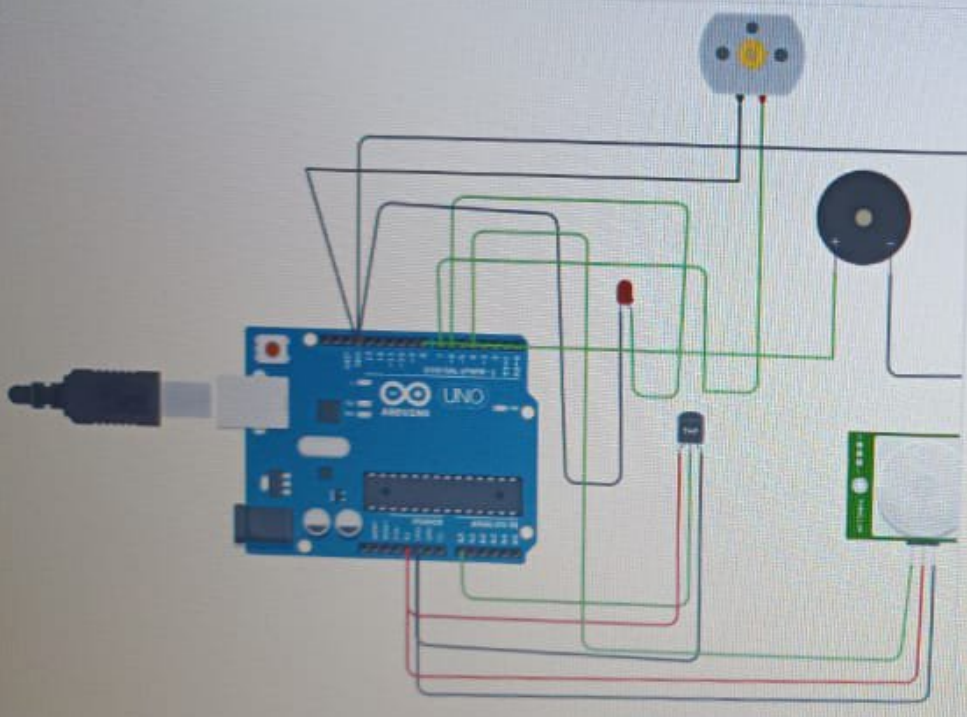
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1 (Arduino Uno R3)



The circuit diagram shows an Arduino Uno R3 board connected to several components:

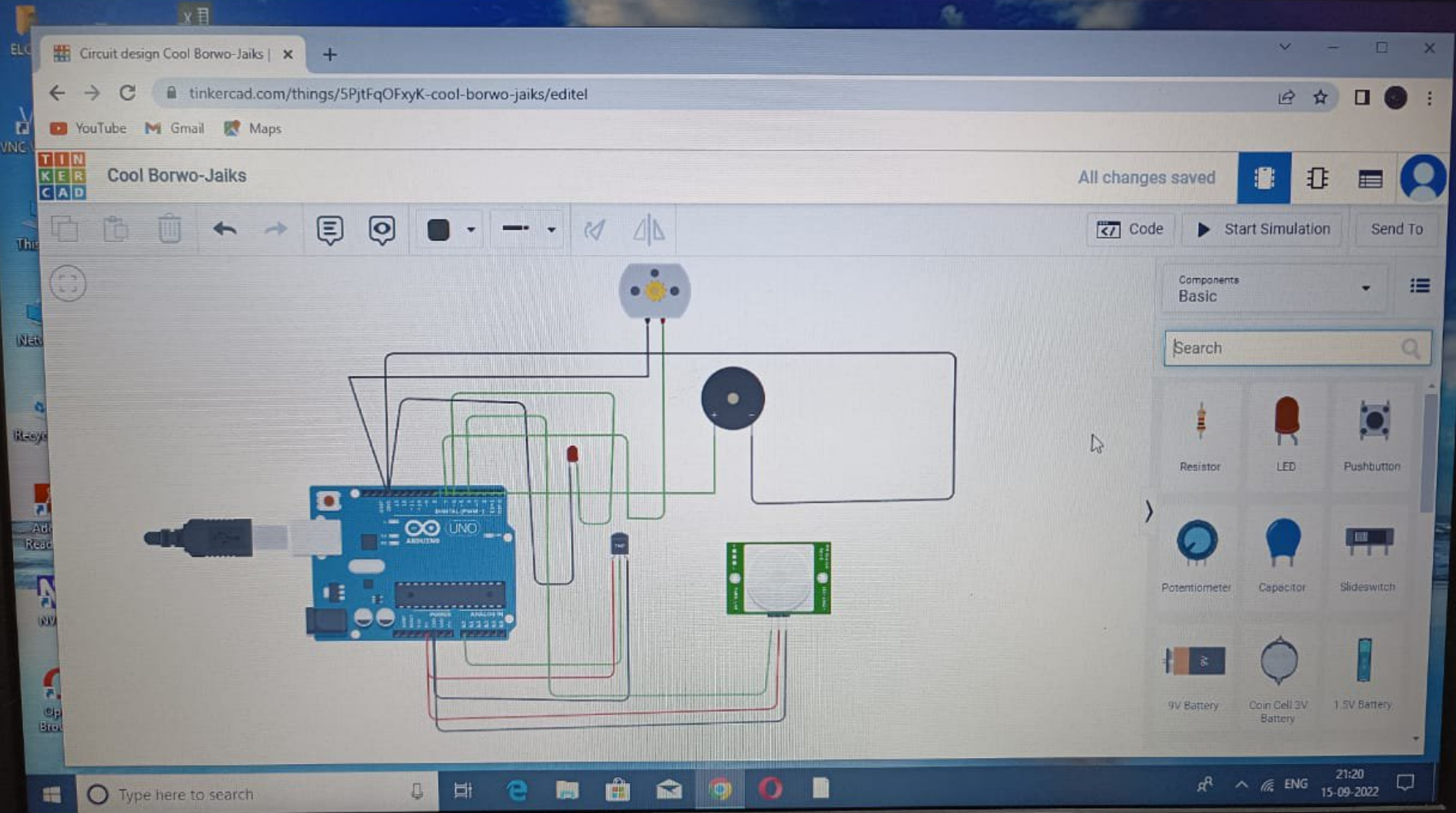
- PIR Sensor:** Connected to digital pin 4 (VCC), digital pin 5 (GND), and digital pin 6 (OUT).
- Temperature Sensor:** Connected to analog pin A0 (VCC), GND, and the sensor module.
- LED:** Connected to digital pin 6 (VCC) and digital pin 7 (GND).
- Motor:** Connected to digital pin 7 (VCC) and digital pin 8 (GND).
- Buzzer:** Connected to digital pin 8 (VCC) and digital pin 9 (GND).

```
1 const int pir =4;
2 const int temp = A0;
3
4 int led =6;
5 int motor =7;
6 int buzzer =8;
7
8 void setup()
9 {
10   Serial.begin(9600);
11   pinMode(pir, INPUT);
12   pinMode(temp, INPUT);
13   pinMode(led, OUTPUT);
14   pinMode(motor, OUTPUT);
15   pinMode(buzzer, OUTPUT);
16 }
17
18 void loop()
19 {
20   int pirval = digitalRead(pir);
21   int tempval = analogRead(temp);
22   if(pirval == HIGH)
23   {
24     digitalWrite(led, HIGH);
25   }
```

Serial Monitor

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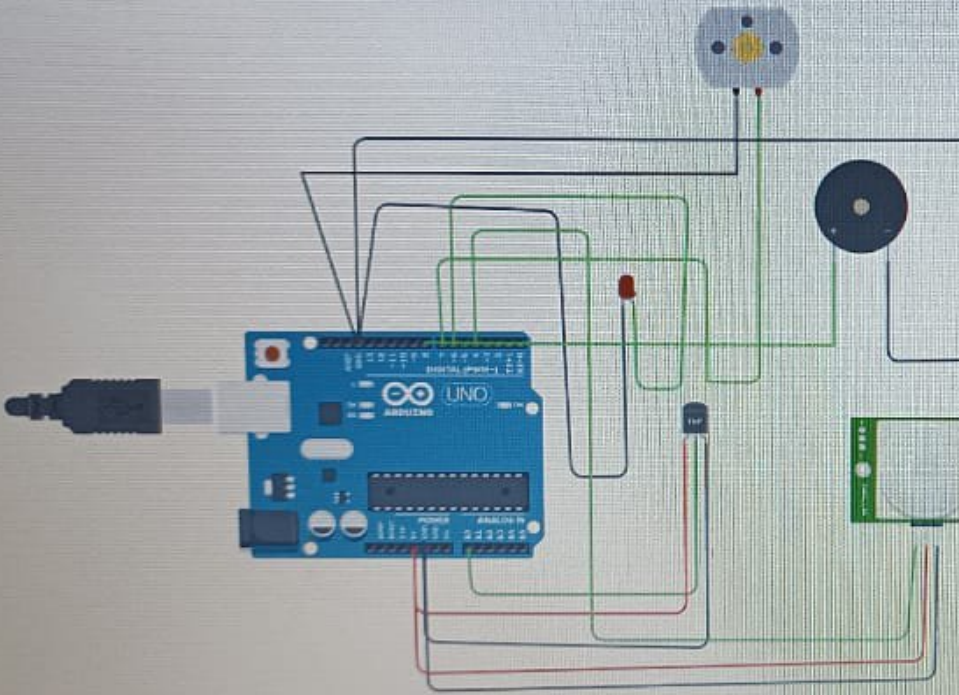
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Code

Start Simulation

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Text

16 }

17 }

18 void loop()

19 {

20 int pirval = digitalRead(pir);

21 int tempval = analogRead(temp);

22 if(pirval == HIGH)

23 {

24 digitalWrite(led,HIGH);

25 }

26 else

27 {

28 digitalWrite(led,LOW);

29 }

30 if(tempval>=200)

31 {

32 digitalWrite(motor,HIGH);

33 digitalWrite(buzzer,HIGH);

34 }

35 else

36 {

37 digitalWrite(motor,LOW);

38 digitalWrite(buzzer,LOW);

39 }

40 }

Serial Monitor

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