

ASSIGNMENT 1

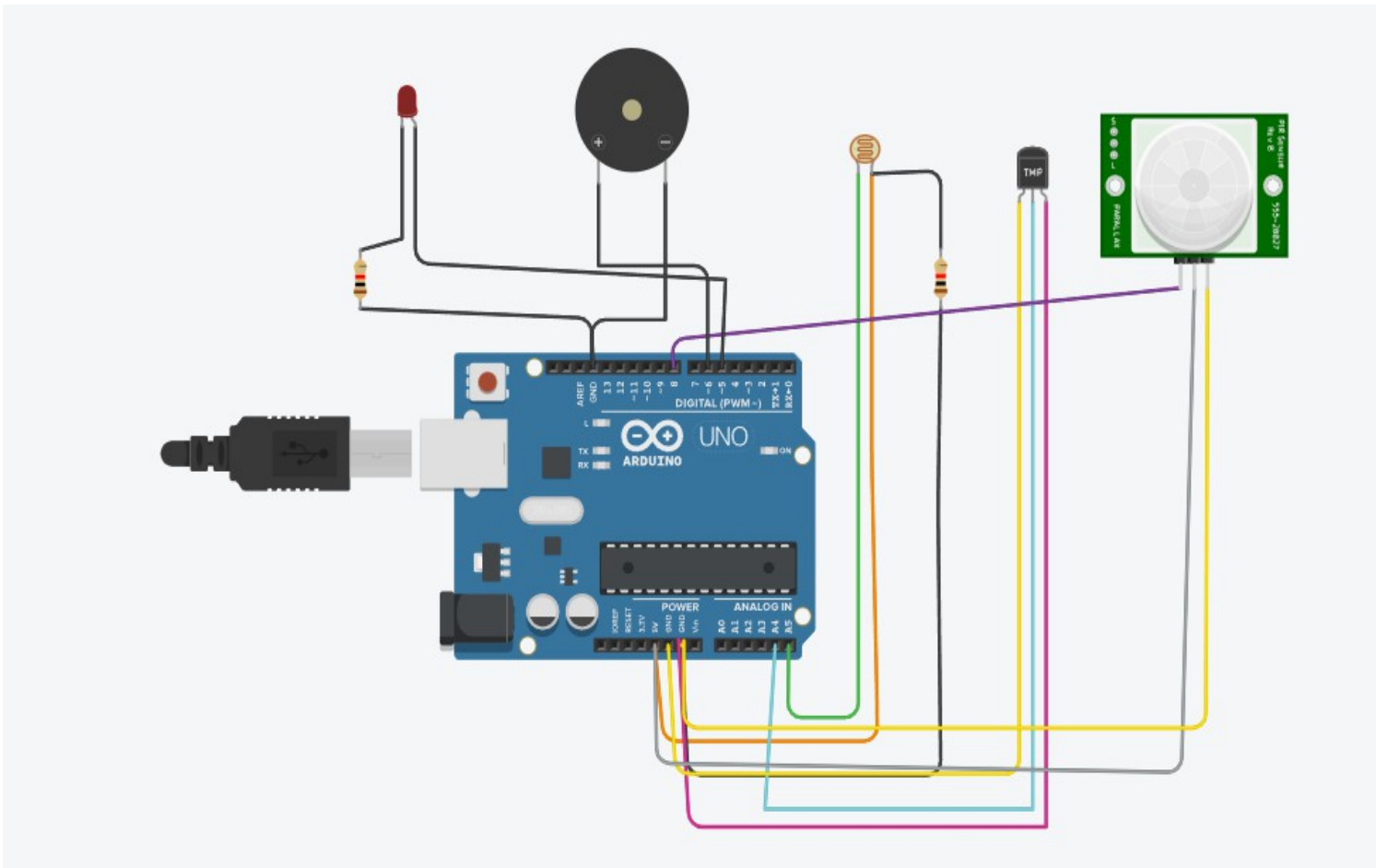
BATCH NO : B1-1M3E

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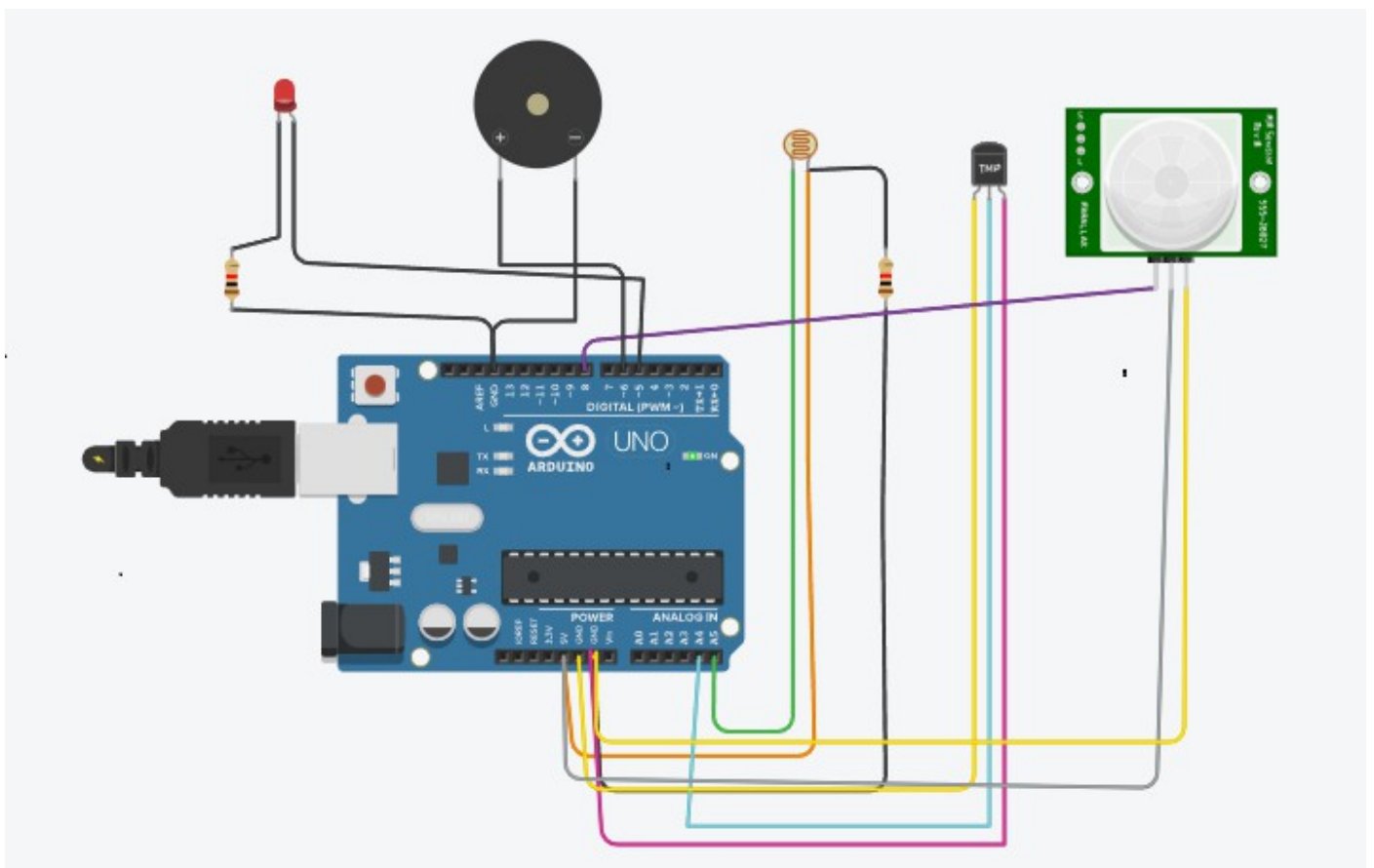
Make a smart home in Tinkercad , Using 2+ sensors , Led , Buzzer in single code and circuit

Circuit Diagram

Before Started Simulation



After Started Simulating



Circuit Code

```
int trigger_pin=2;

int echo_pin=3;

int buzzer_pin=10;

int time;

int distance;

float x,y,z,temp;

void setup()
{
    Serial.begin(9600);

    pinMode(trigger_pin,OUTPUT);

    pinMode(echo_pin,INPUT);

    pinMode(buzzer_pin,OUTPUT);

    pinMode(8,INPUT);

    pinMode(5, OUTPUT);

    pinMode(6,OUTPUT);

    pinMode(A5,INPUT);

    pinMode(A4,INPUT);

    Serial.begin(9600);
}

void loop()
{
    x=digitalRead(8);

    y=analogRead(A5);
```

```
z=analogRead(A4);

Serial.println(x);

Serial.println(y);

Serial.println(z);

temp=(double)z /1024;

temp=temp*5;

temp=temp-0.5;

temp=temp*100;

if ( (x>0) )

{

    if ((y<550)&&(temp<30))

    {

        digitalWrite(5,HIGH);

        digitalWrite(6,HIGH);

    }

    else if((y<550)&&(temp<30))

    {

        digitalWrite(5,HIGH);

        digitalWrite(6,LOW);

    }

    else if((y>550)&&(temp>30))

    {

        digitalWrite(5,LOW);

        digitalWrite(6,HIGH);

    }

    else if((y>550)&&(temp<30))

    {

        digitalWrite(5,LOW);

        digitalWrite(6,HIGH);

    }

}
```

```
}  
  
}  
  
else if((y>550)&&(temp<30))  
{  
    digitalWrite(5,LOW);  
    digitalWrite(6,LOW);  
}  
}
```