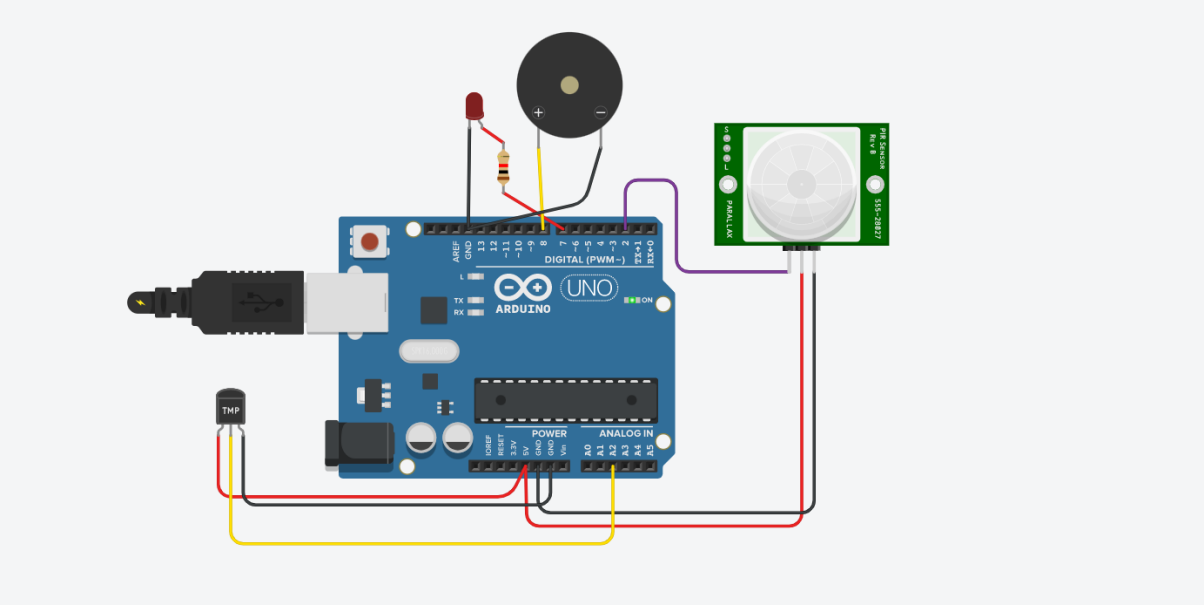
HOME AUTOMATION

Circuit design



Code

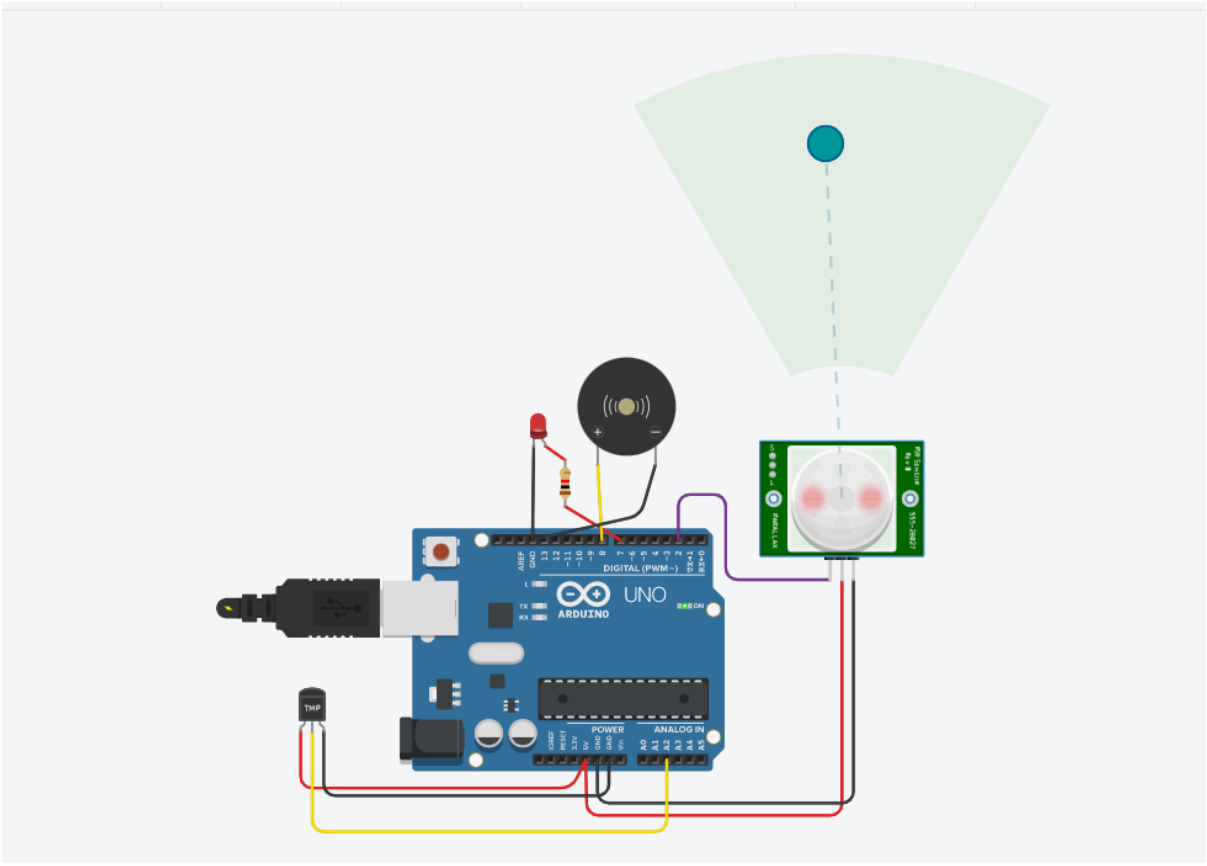
```
float temp;
int tempPin = 0;

void setup()
{
  pinMode(2,INPUT);// PIR Signal
  pinMode(8, OUTPUT);//buzzer "+"
  pinMode(7, OUTPUT);// LED anode
  Serial.begin(9600);
}

void loop()
{
```

```
 int inp = digitalRead(2); // Reading the value
 Serial.println(inp);  // Printing the value
 if(inp){
  Serial.println("Motion");
  tone(8,(inp*13)); // To produce sound from the buzzer
  digitalWrite(7, HIGH); // LED is turned ON
  delay(1000);
 }
 else{
  noTone(8); // To Stop the Buzzer noise
  digitalWrite(7, LOW); // LED is turned OFF
  delay(1000);
 }
  temp = analogRead(tempPin);
  // read analog volt from sensor and save to variable temp
  temp = temp * 0.48828125;
  // convert the analog volt to its temperature equivalent
  Serial.print("TEMPERATURE = ");
  Serial.print(temp); // display temperature value
  Serial.print("*C");
  Serial.println();
  delay(1000); // update sensor reading each one second
}
```

Output


DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN
TMP