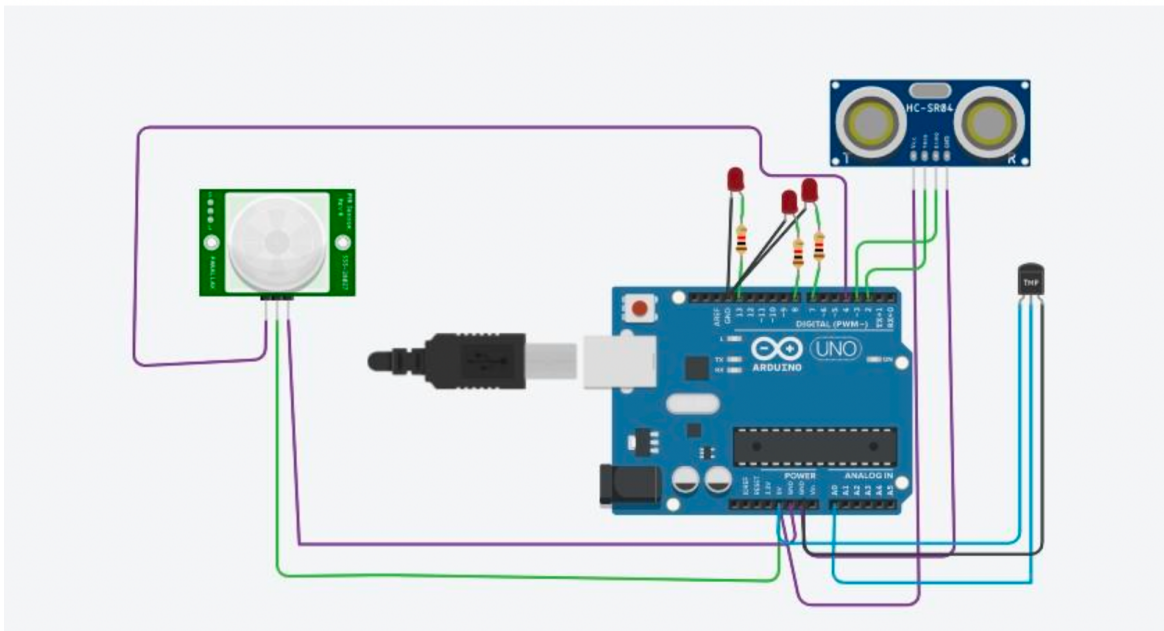


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## Assignment 1



### Code for the circuit:

```
int t=2;  
  
int e=3;  
  
int l=13;  
  
void setup()  
{ pinMode(t,OUTPUT); pinMode(8,OUTPUT);  
  pinMode(7,OUTPUT); pinMode(e,INPUT); pinMode(l,OUTPUT);  
  Serial.begin(9600);
```

```

}
void loop()
{
digitalWrite(8,0); int a=digitalRead(4);
Serial.println(a);
if(a==1)
{
digitalWrite(8,1); Serial.println("Motion detected!!!"); }
delay(1000);
digitalWrite(t,0);
digitalWrite(t,1); delayMicroseconds(10); digitalWrite(t,0);
float dur=pulseIn(e,HIGH);
int dis=(dur*0.0343)/2; analogWrite(l,map(dis,2,320,255,0));
double b=analogRead(A0);
double t=((b/1024)*5)-0.5)*100; Serial.print("temperature value:
"); Serial.println(t);
if(t>100)
digitalWrite(7,1);
else
digitalWrite(7,0); delay(1000); delay(1000);
}

```

