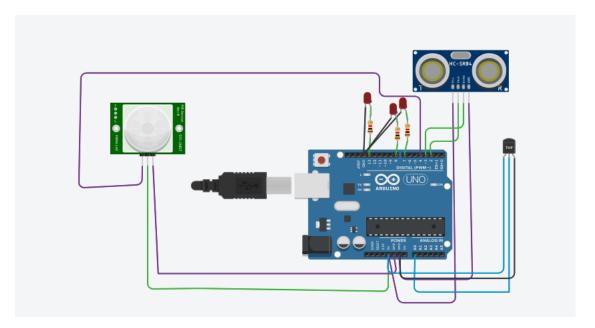
Assignment 1



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(I,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(I,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);
```

}
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