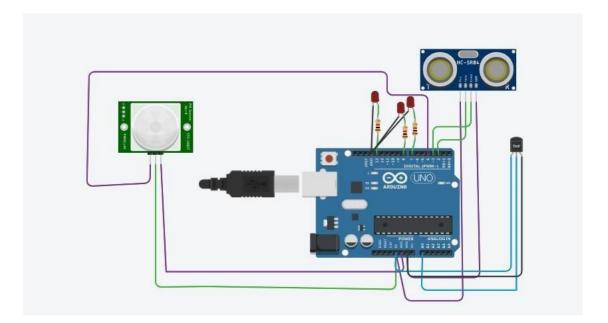
Assignment 1



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(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
```

dię	gitalWrite(7,0); delay(1000);
de	elay(1000);
}	
Te	eam Members:
M	uniraj M
Pra	avin M
Pe	erinbavasan S
Ra	ijesh Kumar S