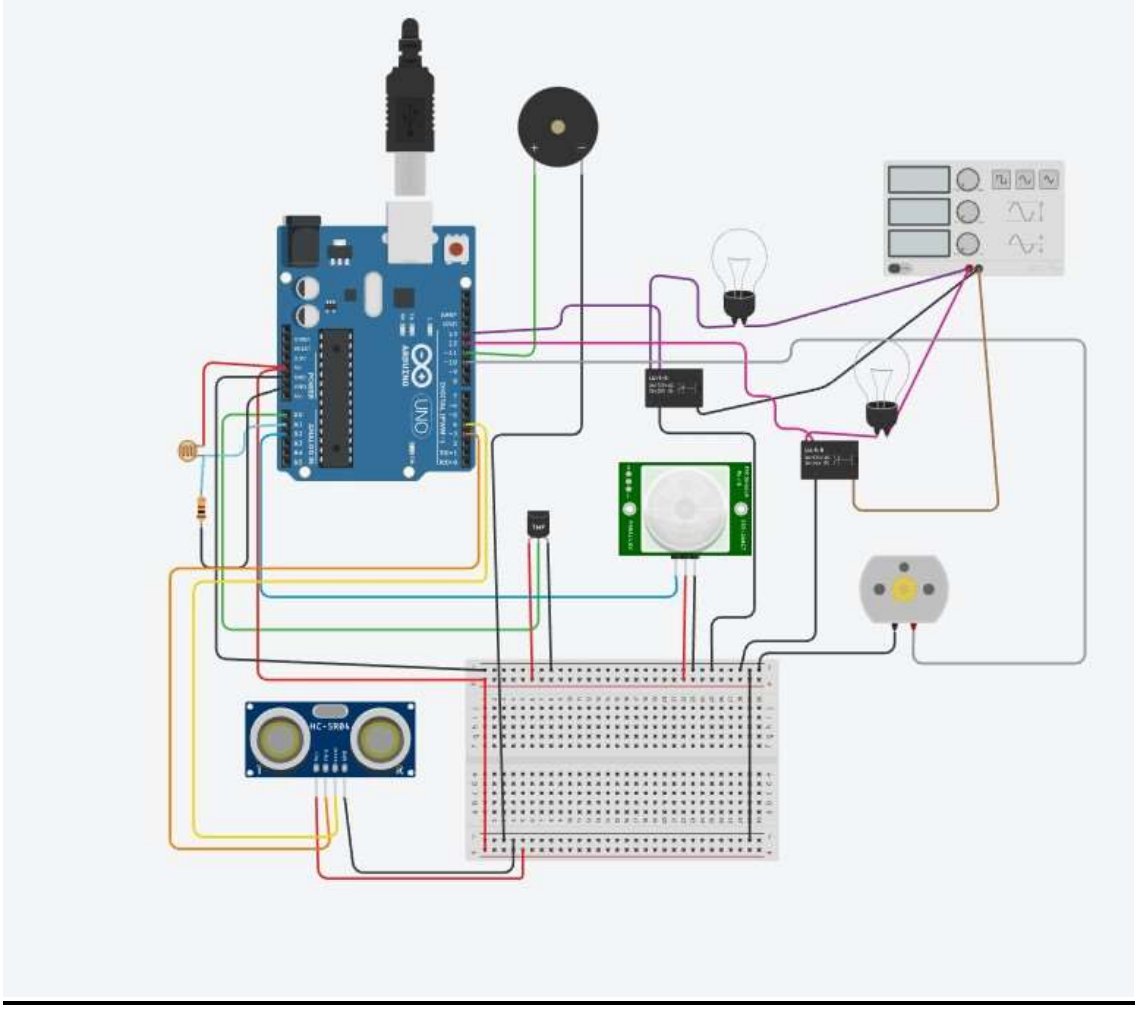
TINKERCAD CIRCUIT



TINKERCAD LINK:
https://www.tinkercad.com/things/erWwhuArw9y-ibm-tinker/editel

TINKERCAD CODE

```
const int rl1 = 13, rl2 = 12, buzz = 11,motor = 10, trig = 3, echo = 4;
const int ldr = A1, pir = A2, tmp = A0;



void setup()
{
  Serial.begin(9600);
  pinMode(motor, OUTPUT);
  pinMode(trig,OUTPUT);
  pinMode(echo,INPUT);
  pinMode(ldr,INPUT);
  pinMode(pir,INPUT);
  pinMode(tmp,INPUT);
  pinMode(rl1,OUTPUT);
  pinMode(rl2,OUTPUT);
  pinMode(buzz,OUTPUT);



}

void loop()
{
 float temperature = analogRead(tmp);
  temperature = map(temperature,20,258,0,100);
 float light = analogRead(ldr);
 light = map(light,6,679,0,255);
 float motion = analogRead(pir);
 long duration;
 int distance;
```

```
digitalWrite(trig, LOW);
delayMicroseconds(2);
digitalWrite(trig, HIGH);
delayMicroseconds(10);
digitalWrite(trig, LOW);
duration = pulseIn(echo, HIGH);
distance = duration * 0.034 / 2;

 if(motion)
{
 digitalWrite(rl1,HIGH);
}
 else
 {
  digitalWrite(rl1,LOW);
 }
 if(distance <14)
{
 digitalWrite(buzz,HIGH);
}
 else
 {
  digitalWrite(buzz,LOW);
 }

 if(temperature >30)
{
 digitalWrite(motor,HIGH);
}
 else
```

```
 {
   digitalWrite(motor,LOW);
 }
 if(light <128)
{
  digitalWrite(rl2,HIGH);
}
 else
 {
   digitalWrite(rl2,LOW);
 }
}
```