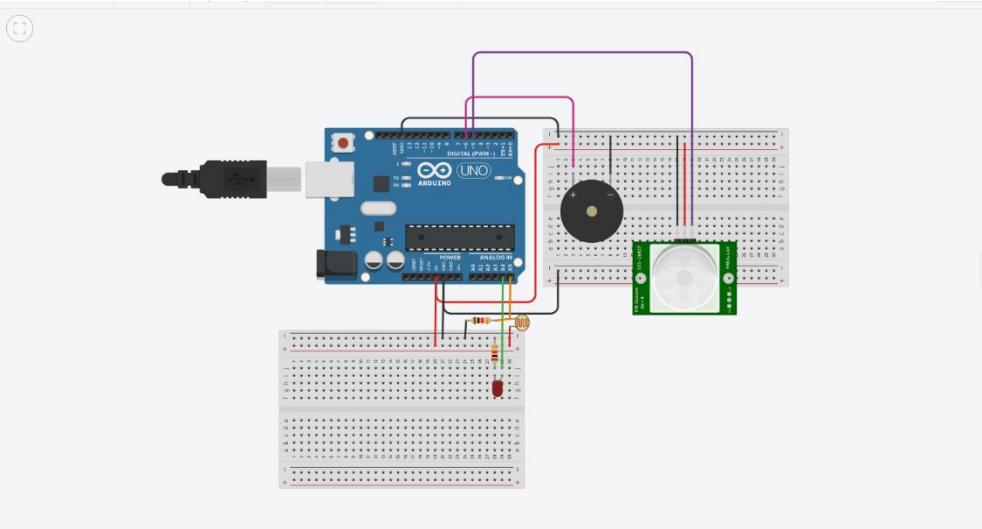
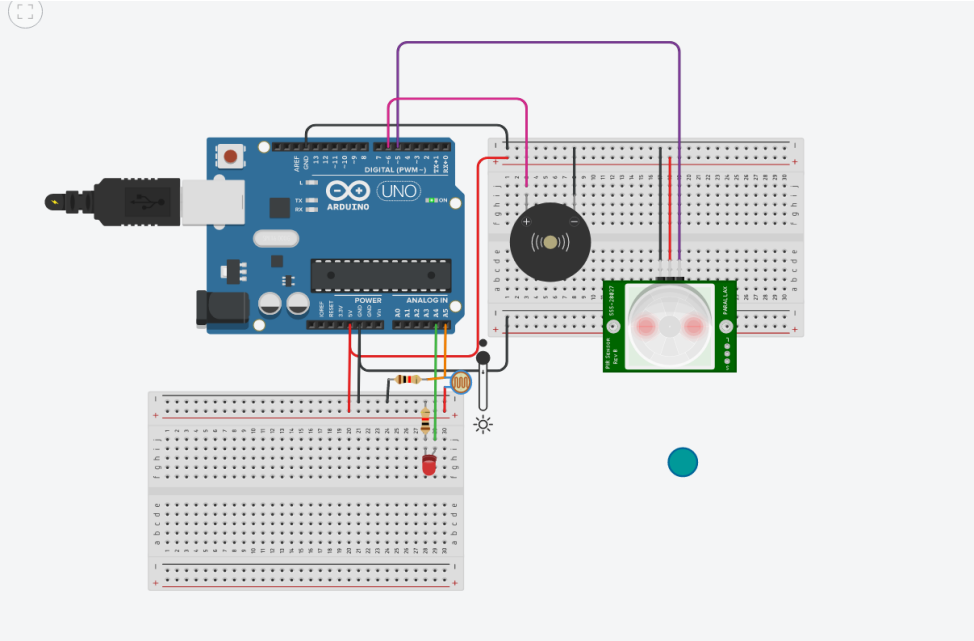
ASSIGNMENT -1

CIRCUIT DIAGRAM:



OUTPUT SIMULATION:



CODE:

```
int motionSensorPin = 5;
int motionAlertPin = 6;
int temperatutePin = 9;
int photoResistorSense = A5;
int photoResponseLight = A4;
void setup()
{
        pinMode(motionSensorPin , INPUT);
        pinMode(motionAlertPin , OUTPUT);
        pinMode(temperatutePin , INPUT);
        pinMode(photoResistorSense , INPUT);
        pinMode(photoResponseLight , OUTPUT);
        Serial.begin(9600);
}

void loop()
{
        if(analogRead(photoResistorSense)<500){
            digitalWrite(photoResponseLight , HIGH);
        }
```

```
        else{
            digitalWrite(photoResponseLight , LOW);
        }
        Serial.println(analogRead(photoResistorSense));

        if(digitalRead(motionSensorPin)){
            digitalWrite(motionAlertPin , HIGH);
            delay(1000);
            digitalWrite(motionAlertPin, LOW);
        }
        delay(1000);
}
```