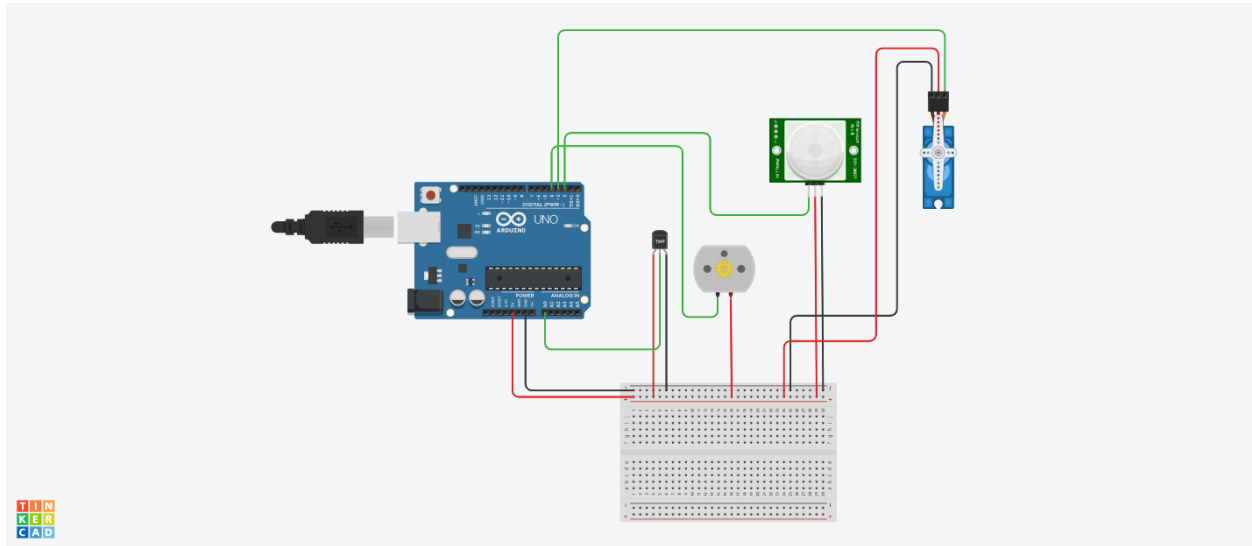


Assignment 1

Circuit Diagram



Program

```
#include <Servo.h>

Servo s;

void setup()
{
  pinMode(4, OUTPUT);
  pinMode(2, INPUT);

  s.attach(3);
}

void loop()
{
  s.write(0);

  int pir = digitalRead(2);
```

```
double a = analogRead(A0);  
double t = (((a / 1024) * 5) - 0.5) * 100;  
  
if(pir){  
    s.write(180);  
    delay(5000);  
}  
  
if(t > 35)  
    digitalWrite(4, 0);  
  
else  
    digitalWrite(4, 1);  
}
```