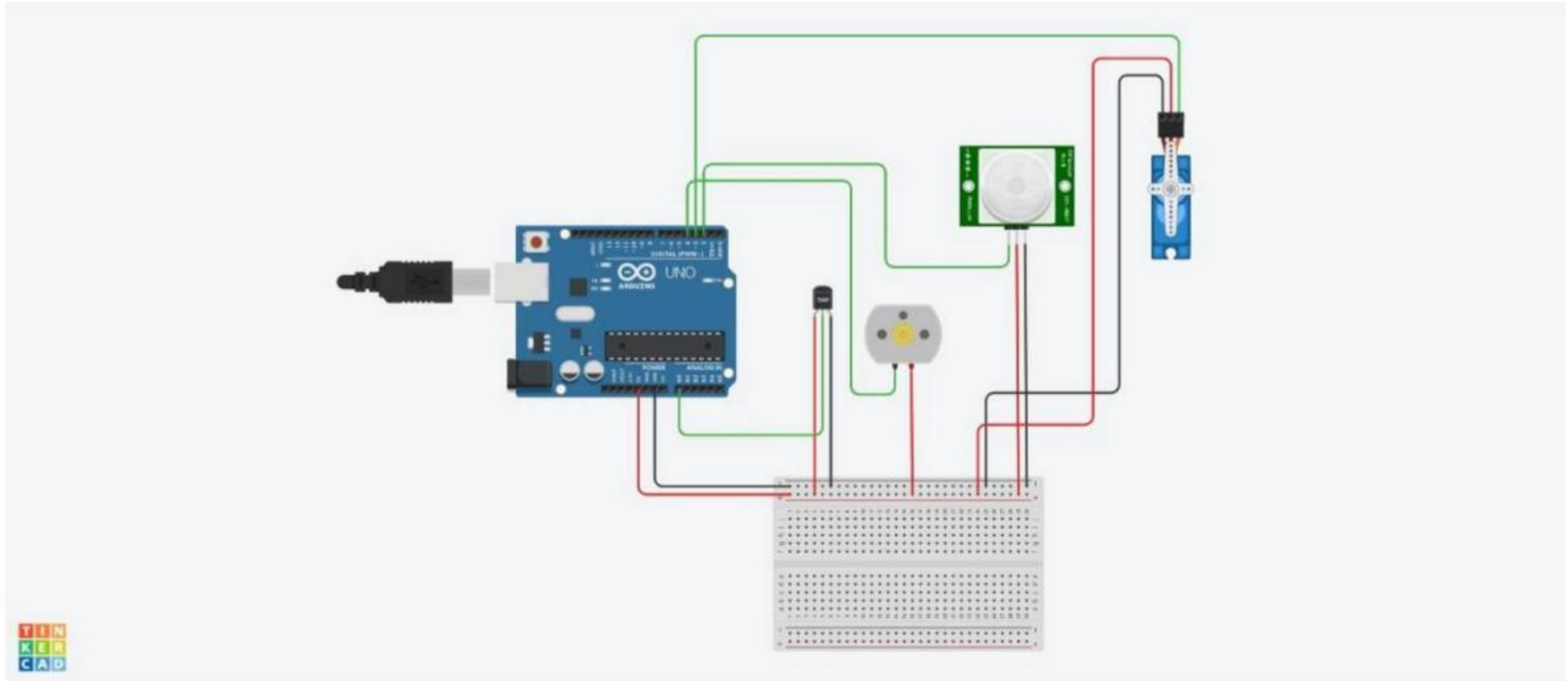


Assignment 1

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);  
}
```