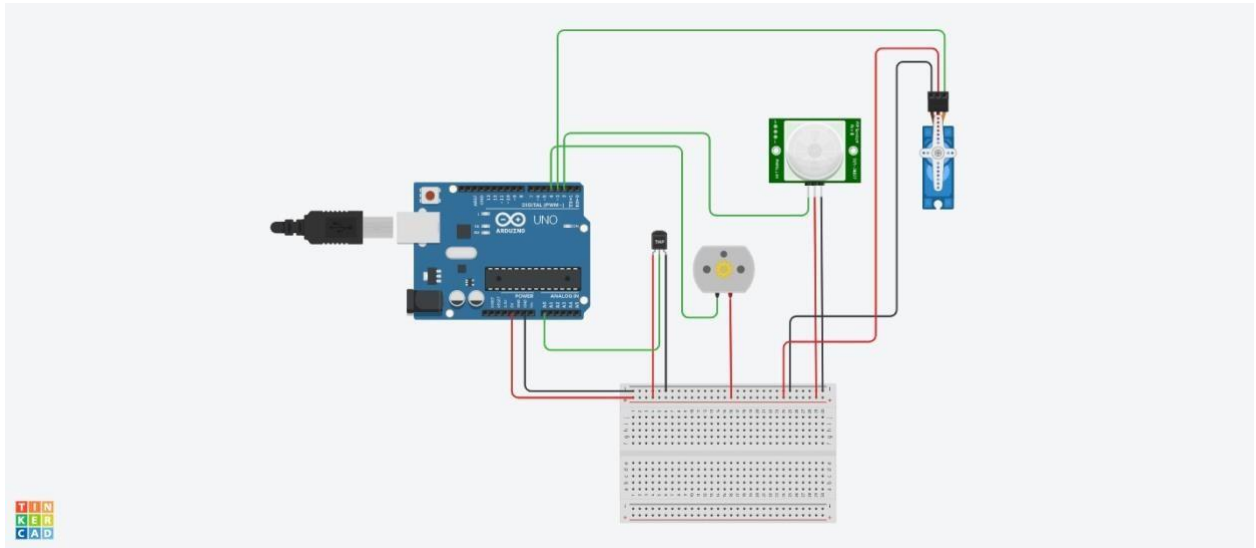


Assignment 1

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);
}
```