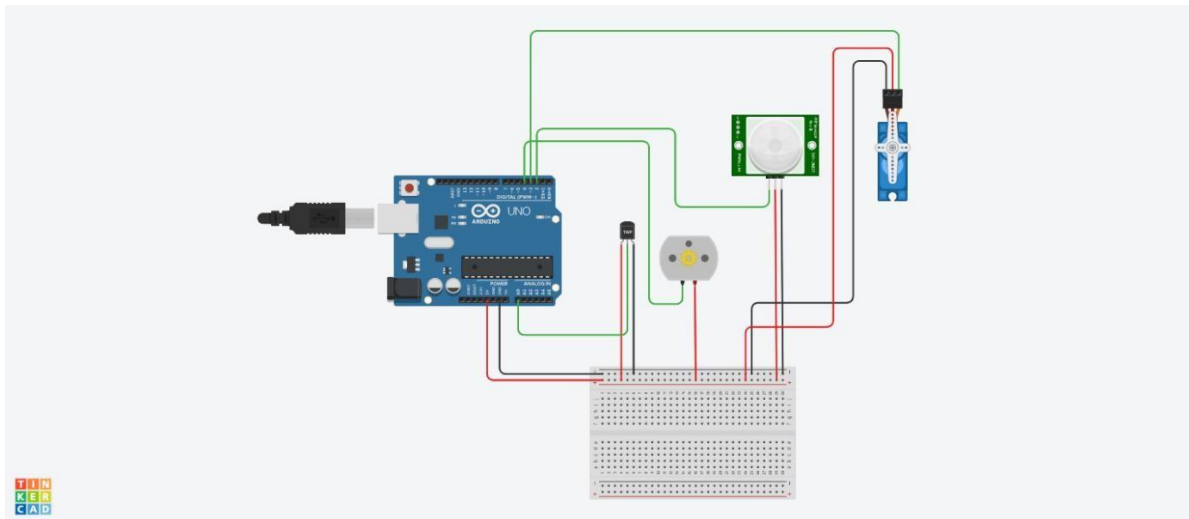# Assignment -1

NAME : Sneha S

ROLL NO : 19L135

TOPIC : home automation using Arduino

OUTPUT:

CODE:

```
#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);
}
```