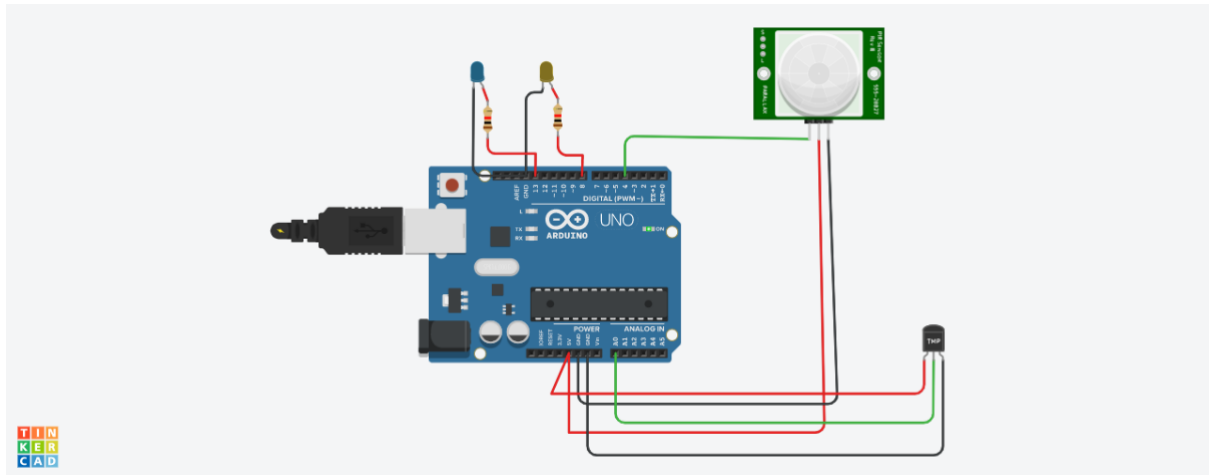## CIRCUIT DIAGRAM

CODE

```
void setup()
{
  Serial.begin(9600);
  pinMode(4,INPUT);
  pinMode(8,OUTPUT);
  pinMode(13,OUTPUT);
}
void loop()
{
  int p=digitalRead(4);
  Serial.println(p);
  if(p)
  {
    digitalWrite(13,1);
    Serial.println("motion detected");
  }
  delay(1000);
  double a=analogRead(A0);
  double t=(((a/1024)*5)-0.5)*100;
  Serial.println(t);
  if(t>25)
  {
  digitalWrite(8,1);
    Serial.println("temperature greater than 25");
  delay(1000);
  }
 }
```