

```
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);  
}  
}
```