



CODE :

```
#include<Servo.h>

Servo s;

void setup()
{
  Serial.begin(9600);
  pinMode(12,OUTPUT);
  pinMode(13,OUTPUT);
  pinMode(2,INPUT);
  s.attach(3);
}

void loop()
{
  int a=digitalRead(2);
  double b=analogRead(A0);
  double c=((b/1024)*5)-0.5)*100;
  s.write(0);
  digitalWrite(13,LOW);
  if(a)
  {
```

```

Serial.println("Human Arrived,door open ");
tone(12,100);
delay(200);
noTone(12);
if(c>37)
{
    digitalWrite(13,HIGH);
    delay(1000);
    tone(12,1000);
    delay(50);
    noTone(12);
    Serial.print("The Body temperature is :");
    Serial.println(c);
    Serial.println("WARNING : Body temperature is higher than normal body temperature!");
    Serial.println("So,You are not allowed!!!");
    s.write(0);
}
else
{
    digitalWrite(13,LOW);
    Serial.print("The Body temperature is :");
    Serial.println(c);
    Serial.println("Normal body temperature .So, Door is opening");
    for(int i=0;i<180;i++)    //Door opening
    {
        s.write(i);
        delay(10);
    }
}
delay(1000);
}
}

```