



```

int Value;
int sensorState = 0;
int sensorValue = 0;

void setup()
{
  pinMode(9, OUTPUT);
  pinMode(A0, INPUT_PULLUP);
  pinMode(A1, INPUT);
  pinMode(9, OUTPUT);
  pinMode(A3, INPUT);
  pinMode(9, OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  Value = analogRead(A0);
  Serial.println(Value);
  delay(1000);
  if(Value > 400)
  {
    analogWrite(9,1);
    tone(9,1000);
    delay(1000);
    noTone(9);
  }
  else
  {
    analogWrite(9,0);

  }
  {
    sensorState = digitalRead(2);
    if (sensorState == HIGH) {
      digitalWrite(9, HIGH);
      Serial.println("Sensor activated!");
    } else {
      digitalWrite(9, LOW);
    }
  }
  delay(10);
  {
    sensorValue = analogRead(A3);
    Serial.println(sensorValue);
    analogWrite(9, map(sensorValue, 0, 1023, 0, 255));
    delay(100);
  }
}

```