  
// C++ code

//

void setup()

{

pinMode(12, OUTPUT);

pinMode(4,INPUT);

pinMode(7, OUTPUT);

Serial.begin(9600);

}

void loop()

{

int m = digitalRead(4);

Serial.print(m);

Serial.print("\n");

if(m){

Serial.print("Motion Detected !!! \n");

tone(12,(m\*2000));

digitalWrite(7, HIGH);

delay(1000);

}

else{

noTone(12);

digitalWrite(7, LOW);

delay(1000);

}

}