BUILD A SMART HOME WITH USING AT LEAST 2 SENSORS, LED AND BUZZER IN A CIRCUIT WITH SINGLE CODE

SIMULATION

```
#include <Servo.h>
Servo myservo;
int Value;
int ledPin = 13;          // LED
int pirPin = 2;             // PIR Out pin
int pirStat = 0;              // PIR status
int pos = 0;

void setup() {
  pinMode(6, OUTPUT);
  pinMode(A0, INPUT_PULLUP);

 pinMode(ledPin, OUTPUT);
 pinMode(pirPin, INPUT);
 myservo.attach(9);  // attaches the servo on pin 9 to the servo object
 Serial.begin(9600);
}
void loop(){
 pirStat = digitalRead(pirPin);
 if (pirStat == HIGH) {          // if motion detected
   digitalWrite(ledPin, HIGH);  // turn LED ON

   Serial.println("Hey I got you!!!");
```

```
  for (pos = 0; pos <= 180; pos += 1) { // goes from 0 degrees to 180 degrees
   // in steps of 1 degree
   myservo.write(pos);
   delay(15);
  }

}
else {
   digitalWrite(ledPin, LOW); // turn LED OFF if we have no motion



}
   Value = analogRead(A0);
Serial.println(Value);
delay(1000);
  if(Value > 300)
 {
    analogWrite(6,500);
            delay(1000);

   }
 else
 {
   analogWrite(6,0);

 }

}
```

CIRCUIT DIAGRAM