// This #include statement was automatically added by the Particle IDE.

#include <Adafruit\_DHT.h>

//Sensor Type

#define DHTTYPE DHT22

//Sensor Connections

#define DHT\_5V\_PIN A0

#define DHT\_SENSOR\_PIN A1

#define DHT\_GROUND\_PIN A3

DHT dht(DHT\_SENSOR\_PIN, DHTTYPE);

// create servo object to control a servo

Servo myservo;

int pos; // variable to store the servo position

int subpos ;

int relay = D3;

void setup()

{

myservo.attach(A5); // attaches the servo on the A4 pin to the servo object

Particle.function("setpos", setPosition);

Particle.function("subpos", subPosition);

Particle.function("outletON",setOutletON);

Particle.function("outletOFF",setOutletOFF);

Particle.variable("getTemp", tempRequest);

}

void loop()

{

}

int setPosition(String posValue) {

pos = 121;

// pos = posValue.toInt();

myservo.write(pos);

return 0;

}

int subPosition(String posValue) {

subpos = 61;

myservo.write(subpos);

return 0;

}

int setOutletON(String value){

relay = D3;

pinMode(relay, OUTPUT);

digitalWrite(relay, HIGH);

}

int setOutletOFF(String value){

relay = D3;

pinMode(relay, OUTPUT);

digitalWrite(relay, LOW);

}

int tempRequest (String value){

//Powering up the sensor

pinMode(DHT\_5V\_PIN, OUTPUT);

pinMode(DHT\_GROUND\_PIN, OUTPUT);

digitalWrite(DHT\_5V\_PIN, HIGH);

digitalWrite(DHT\_GROUND\_PIN, LOW);

//wait 1 second for sensor to power up

delay(1000);

//Initialize the sensor

dht.begin();

//farenheit

double temperature = dht.getTempFarenheit();

return temperature;

}