#include <OneWire.h>

**FINAL CODE**

#include <DallasTemperature.h>

#include <ArduinoJson.h>

OneWire oneWire(2);

DallasTemperature temp\_sensor(&oneWire);

float calibration\_value = 21.34;

StaticJsonBuffer<1000> jsonBuffer;

JsonObject& root = jsonBuffer.createObject();

for(int i=0;i<10;i++)

{

buffer\_arr[i]=analogRead(A0);

delay(30);

}

for(int i=0;i<9;i++)

{

for(int j=i+1;j<10;j++)

{

if(buffer\_arr[i]>buffer\_arr[j])

{

temp=buffer\_arr[i];

buffer\_arr[i]=buffer\_arr[j];

buffer\_arr[j]=temp;

}

}

}

for(int i=2;i<8;i++)

avgval+=buffer\_arr[i];

float volt=(float)avgval\*5.0/1024/6;

float ph\_act = -5.70 \* volt + calibration\_value;

temp\_sensor.requestTemperatures();

int moisture\_analog=analogRead(A1);

int moist\_act=map(moisture\_analog,0,1023,100,0);

root["a1"] = ph\_act;

root["a2"] = temp\_sensor.getTempCByIndex(0);

root["a3"] = moist\_act;

root.printTo(Serial);

Serial.println("");