ESP8266 Code

```
#include "ThinkSpeak.h

#include <ESP8266WiFi.h>

char networkname[] = ""; // your network name

char passcode[] = ""; // your passcode

WiFiClient client;

unsigned long tsChannelID = ; // ThingSpeak Channel ID

const char * tsWriteAPIKey = ""; //ThingSpeak Write API Key

String airQuaility = "";

const int fieldOne = 1;

void setup()

{

Serial.begin(115200);

WiFi.mode(WIFI_STA);

ThingSpeak.begin(client);

thingSpeak();

}

void loop()

{

thingSpeak();

if (Serial.available() > 0)

{

while (Serial.available() > 0)

{
```

```
int inChar = Serial.read();

airQuaility += (char)inChar;

}

}

pushData();

}

void thingSpeak()

{

if (WiFi.status() != WL_CONNECTED)

{

while (WiFi.status() != WL_CONNECTED)

{

WiFi.begin(networkname, passcode);

delay(5000);

}

}

}

void pushData()

{

int getData = ThingSpeak.writeField(tsChannelID, fieldOne, airQuaility, tsWriteAPIKey);

if (getData != 200)

{

delay(15000);

pushData();
```

```
}

airQuaility = "";

}
```

Final Code

```
#include <SoftwareSerial.h>

SoftwareSerial mySerial(5, 6);

int aqValue;

void setup()

{

mySerial.begin(115200);

Serial.begin(115200);

}

void loop()

{

aqValue = analogRead(A0);

Serial.println(aqValue);

mySerial.println(aqValue);

delay(300000);

}
```