Kod za mjerenje visine vode

```
#include <Arduino.h>


#include "ESP8266WiFi.h"
#include <ThingSpeak.h>

const int trigPin =5;     // definiranje pinova za senzor
const int echoPin =4; long duration;
int distanceCm;

WiFiClient client;

const char *ssid = "Honor 8X";   // naziv mreze

const char *pass = "internet";    // password wifi mreze

char thingSpeak[] ="api.thingspeak.com";
unsigned long ChannelID = 1091555;         // id i api key kanala na thingspeaku
char *writeAPIKey = "K98NFWI1HEKBZV4K";

int x;


void setup()
{
  Serial.begin(9600);
  delay(1000);

pinMode(trigPin, OUTPUT);    // primjena pinova za senzor izlaz/ulaz pinMode(echoPin,
INPUT);


  WiFi.begin(ssid, pass);   // poziv funkcije iz esp8266 biblioteke da se nodemcu spoji na wifi
mrezu

while( WiFi.status() != WL_CONNECTED)     // provjera da li je modul spojen na wifi,ako nije
ispisivat ce tocke . . .
{
  Serial.print(".");
  delay(100);
```

```
  }
  Serial.print("spojen na wifi");

  ThingSpeak.begin(client);

}

void loop()
{

digitalWrite(trigPin, LOW);
delayMicroseconds(2);
digitalWrite(trigPin, HIGH);                  // okidanje zvucnog impulsa
delayMicroseconds(10); digitalWrite(trigPin, LOW);
duration = pulseIn(echoPin, HIGH);          // mjerenje vremena zvucnog signala
distanceCm= duration*0.034/2;


int y= 32  ;   // dubina
 x=       17       -       (y-
DistanceCm);

Serial.println("Napunjeno je: ");
Serial.println(y-distanceCm);
Serial.println("Ostalo je: ");
Serial.println(x );

ThingSpeak.setField(1, volumen);       // pakiranje podataka za slanje na thingspeak

ThingSpeak.writeFields(ChannelID,  writeAPIKey);            // slanje  podataka  na  web,
prosljedjuemo parametre id i api key naseg kanala

delay(6000);


}
```