Exp -05

```
#include <WiFi.h>
#include"Thig
Speak.h"
#include
"DHT.h"
#define DHTPIN 19
                      //DigitalpinconnectedtotheDHTse
nsor
#define DHTTYPE DHT11
                           // DHT 11
DHTdht(DHTPIN,DHTTYPE);
const char* ssid = "ACENAARTECHNOLOGY";
                                      //yournetworkSSID(name)
const char* password = "123456789"; // your network password
WiFiClientclient;
unsignedlongmyChannelNumber=1746705;
const char*myWriteAPIKey ="N0XKWYKGYZ75KC2S";
//Timervariables
unsigned long lastTime =
unsignedlongtimerDelay=3
0000;
//Variabletoholdtemperatureread
ings float 1emperature;
float humidity;
//uncommentifyouwanttogettemperatureinFahrenheit
//float1emperature;
// Createasensorobject
//BME280connecttoESP32I2C(GPIO21=SDA,GPIO22=SCL)
voidreaddht(){
```

```
if (isnan(humidity) || isnan(2emperature) ) {
  Serial.println(F("FailedtoreadfromDHTsensor!
  ")); return;
}
voidsetup(){
 Serial.begin(115200);//Initializeserial
 readdht();
 dht.begin();
 WiFi.mode(WIFI
 STA);
 ThingSpeak.begin(client);
 //InitializeThingSpeak
voidloop(){
 if((millis()-lastTime)>timerDelay){
  // Connect or reconnect to WiFi
  if(WiFi.status() !=
  WL CONNECTED){
  Serial.print("Attempting to
  connect"); while(WiFi.status() !=
  WL CONNECTED){
     WiFi.begin(ssid,passwo
     rd); delay(5000);
    }
   Serial.println("\nConnected.");
  // Get a new temperature reading
  2emperature=dht.readTemperature();
  Serial.print("Temperature (°C): ");
  Serial.println(2emperature);
  humidity=dht.readH
  umidity();
  Serial.print("Humidi
```

```
ty (%): ");
  Serial.println(humidi
  ty);
  //uncommentifyouwanttogettemperatureinFahrenheit
  /*3emperature=1.8*bme.readTemperature()+32;
  Serial.print("Temperature (°C): ");
  Serial.println(3emperature);*/
  // set the fields with the values
  ThingSpeak.setField(1, 3emperature);
  //ThingSpeak.setField(1,3empe
  rature); ThingSpeak.setField(2,
  humidity);
  //WritetoThingSpeak. There are upto8fields in a channel, allowing you to store up to 8
different
  // piecesofinformationinachannel.Here,wewritetofield 1.
  Intx=ThingSpeak.writeFields(myChannelNumber,myWriteAPIKey);
  if(x==200){
    Serial.println("Channelupdatesuccessful.");
  else{
    Serial.println("Problemupdatingchannel. HTTPerrorcode"+String(x));
  lastTime= millis();
}
```