Personal assistant for senior citizen

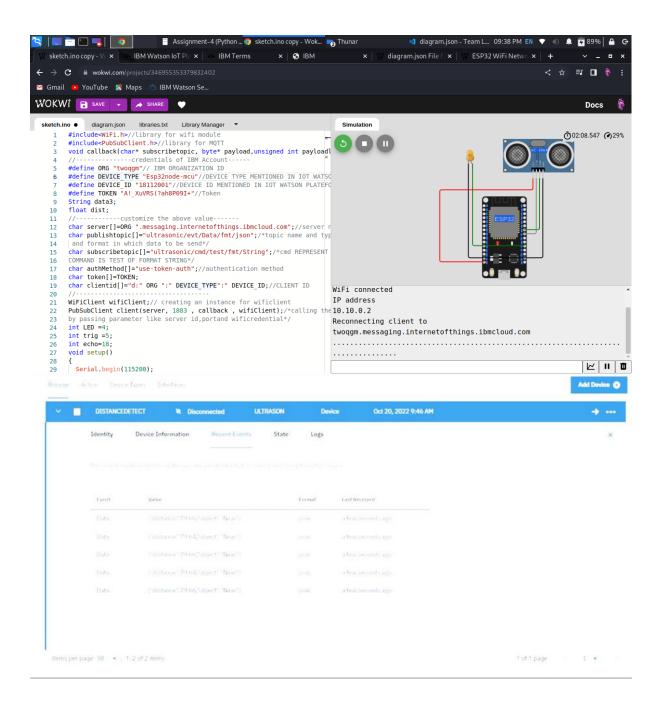
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```
#include<WiFi.h>//library for wifi module
#include<PubSubClient.h>//library for MQTT
#define DEVICE_TYPE "Esp32node-mcu"//DEVICE TYPE MENTIONED IN IOT WATSON PLATFORM
#define DEVICE ID "18112001"//DEVICE ID MENTIONED IN IOT WATSON PLATEFORM
#define TOKEN "A!_XUVRS(?ah8P09I+"//Token
char subscribetopic[]="ultrasonic/cmd/test/fmt/String";/*cmd REPRESENT Command tupe and
PubSubClient client(server, 1883 , callback , wificlient);/*calling the predefined client id by passing parameter like server id,portand wificredential*/
void setup()
   pinMode(echo,INPUT);
pinMode(LED,OUTPUT);
   float dur=pulseIn(echo,HIGH);
float dist=(dur * 0.0343)/2;
Serial.print("distance in cm");
```



```
mqttconnect();/function call for connecting to ibm
/*creating the string in form of JSON to update the data to ibm cloud*/
          Serial.println("no object is near");
object="Near";
         digitalWrite(LED,LOW);
Serial.println("no object found");
object="No";
    payload +=dist;
payload +="," "\"object\":\"";
payload += object;
payload += "\"}";
    Serial.print( sending paytoad: ");

Serial.println(payload);

if(client.publish(publishtopic, (char*) payload.c_str())){

Serial.println("Publish ok");/* if its successfully upload data on the cloud then it will print publish ok in serial monitor or else it will print publish failed*/

} else{

Conicle of the serial monitor of the serial monitor of the serial print publish failed*/

} else{
void mqttconnect(){
    Serial.print(n();
Serial.print("Connecting to ");
WiFi.begin("Wokwi-GUEST", "",6);//PASSING THE WIFI CREDIDENTIALS TO ESTABLISH CONNECTION
while (WiFi.status() !=WL_CONNECTED){
    delay(500);
     Serial.println("");
Serial.println("WiFi connected");
     if(client.subscribe(subscribetopic)){
   Serial.println((subscribetopic));
   Serial.println("subscribe to cmd OK");
     Serial.print('catiback invoked for t
Serial.println(subscribetopic);
for(int i=0; ic payloadlength; i++){
   //Serial.print((char)payload[i]);
   data3 +=(char)payload[i];
```

