Personal assistant for senior citizen

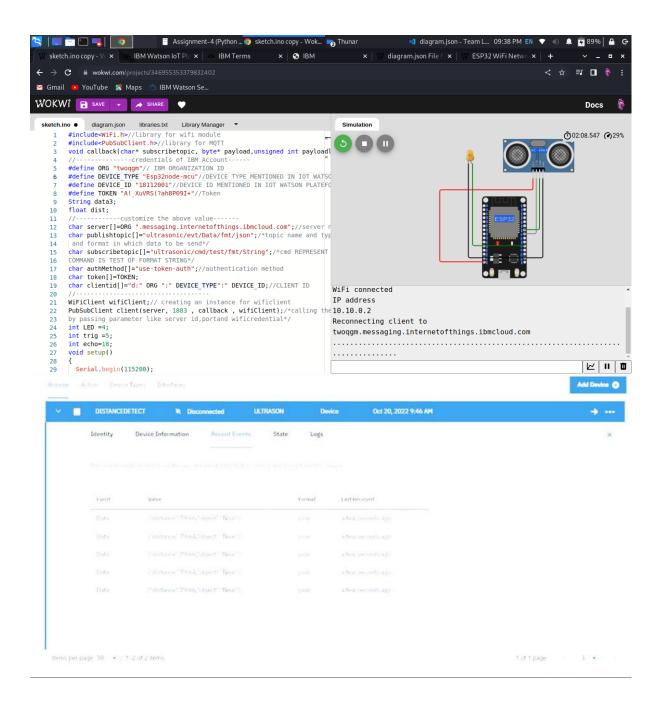
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```
#include<WiFi.h>//library for wifi module
#include<PubSubClient.h>//library for MQTT
void callback(char* subscribetopic, byte* payload,unsigned int payloadlength);
//-----credentials of IBM Account-----
#define ORG "twoggm"/ IBM ORGANIZATION ID
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#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 token[]=TOKEN;
char clientid[]="d:" ORG ":" DEVICE_TYPE":" DEVICE_ID;//CLIENT ID
PubSubClient client(server, 1883 , callback , wificlient);*calling the predefined client id by passing parameter like server id,portand wificredential*/
     pinMode(echo,INPUT);
     digitalWrite(trig,LOW);
float dur=pulseIn(echo,HIGH);
float dist=(dur * 0.0343)/2;
    delay(1000);
if (!client.loop()){
```



```
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.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*/
void mqttconnect(){
   Serial.println();
Serial.print("Connecting to ");
WiFi.begin("Wokwi-GUEST", "",6);//PASSING THE WIFI CREDIDENTIALS TO ESTABLISH CONNECTION
while (WiFi.status() !=WL_CONNECTED){
       delay(500);
Serial.print(".");
    Serial.println("");
Serial.println("WiFi connected");
Serial.println("IP address");
        Serial.println((subscribetopic));
Serial.println("subscribe to cmd OK");
    Serial.print( cattback invoked for t
Serial.println(subscribetopic);
for(int i=0; ic payloadlength; i++){
   //Serial.print((char)payload[i]);
   data3 +=(char)payload[i];
```

