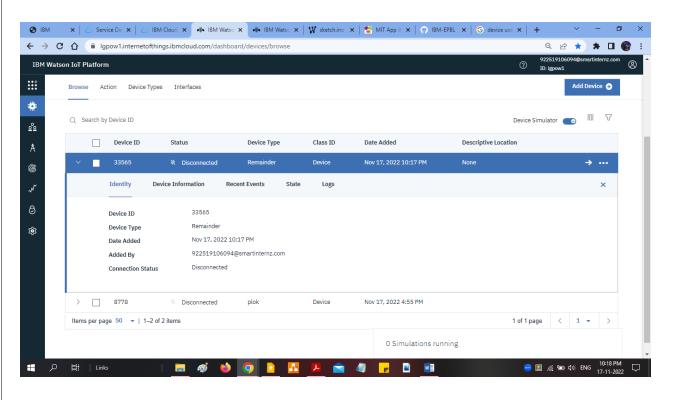
SPRINT - 1

Project Title:	Personal Assistance for Senior Who are Self Reliant
Team ID:	PNT2022TMID33565

Created IOT device configuration in IBM IOT Watson



Connected IBM IOT watson cloud with wokwi(nodemcu)

Wokwi url: https://wokwi.com/projects/348594509931610706

Code:

```
#include<WiFi.h>//library for wifi module
#include<PubSubClient.h>//library for MQTT
void callback(char* subscribetopic, byte* payload,unsigned int payloadlength);
#define ORG "None"// IBM ORGANIZATION ID
#define DEVICE TYPE "Remainder"//DEVICE TYPE MENTIONED IN IOT WATSON PLATFORM
#define DEVICE_ID "33565"//DEVICE ID MENTIONED IN IOT WATSON PLATEFORM
#define TOKEN "PNT2022TMID33565"//Token
String data3;
float dist;
//---- rustomize the above value-----
char server[]=ORG ".messaging.internetofthings.ibmcloud.com";//server name
char publishtopic[]="ultrasonic/evt/Data/fmt/json";/*topic name and type of event
perform
 and format in which data to be send*/
char subscribetopic[]="ultrasonic/cmd/test/fmt/String";/*cmd REPRESENT Command tupe
COMMAND IS TEST OF FORMAT STRING*/
char authMethod[]="use-token-auth";//authentication method
char token[]=TOKEN;
char clientid[]="d:" ORG ":" DEVICE_TYPE":" DEVICE_ID;//CLIENT ID
WiFiClient wifiClient;// creating an instance for wificlient
PubSubClient client(server, 1883 , wifiClient);
void setup()
  Serial.begin(115200);
  wificonnect();
  mqttconnect();
void loop()//recursive function
  if (!client.loop()){
    mqttconnect();
```

```
.....retriving to
void mqttconnect(){
 if(!client.connected()){
   Serial.print("Reconnecting client to ");
   Serial.println(server);
   while(!!!client.connect(clientid,authMethod, token)){
     Serial.print(".");
     delay(500);
   initManagedDevice();
   Serial.println();
 else{
   Serial.println("Connected :)");
void wificonnect()//function defenition for wificonnects
 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(WiFi.localIP());
void initManagedDevice(){
 if(client.subscribe(subscribetopic)){
   Serial.println((subscribetopic));
   Serial.println("subscribe to cmd OK");
 }else{
   Serial.println("subscribe to cmd failed");
```

