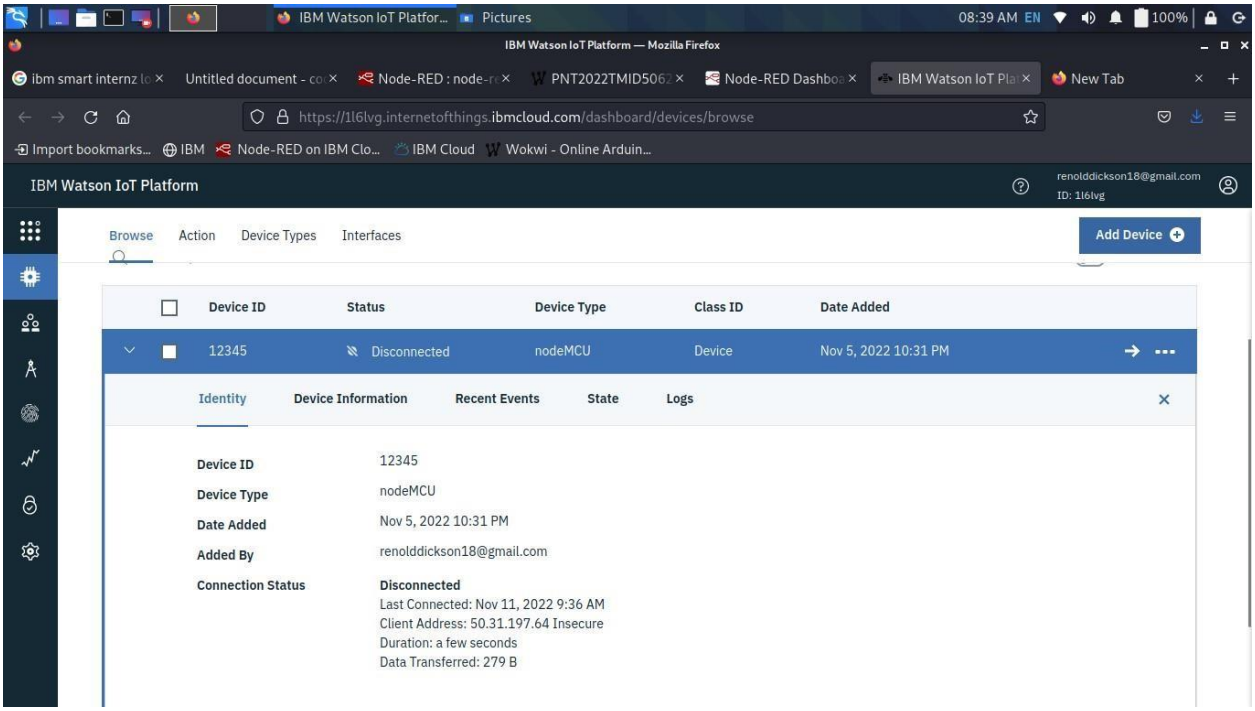
SPRINT - 1

Team ID	PNT2022TMID50941
Project Name	**Personal Assistance for Seniors Who are self-reliant**
Date	**15November2022**

Created IOT device config in IBM IOT watson



Connected IBM IOT watson cloud with wokwi(nodemcu)

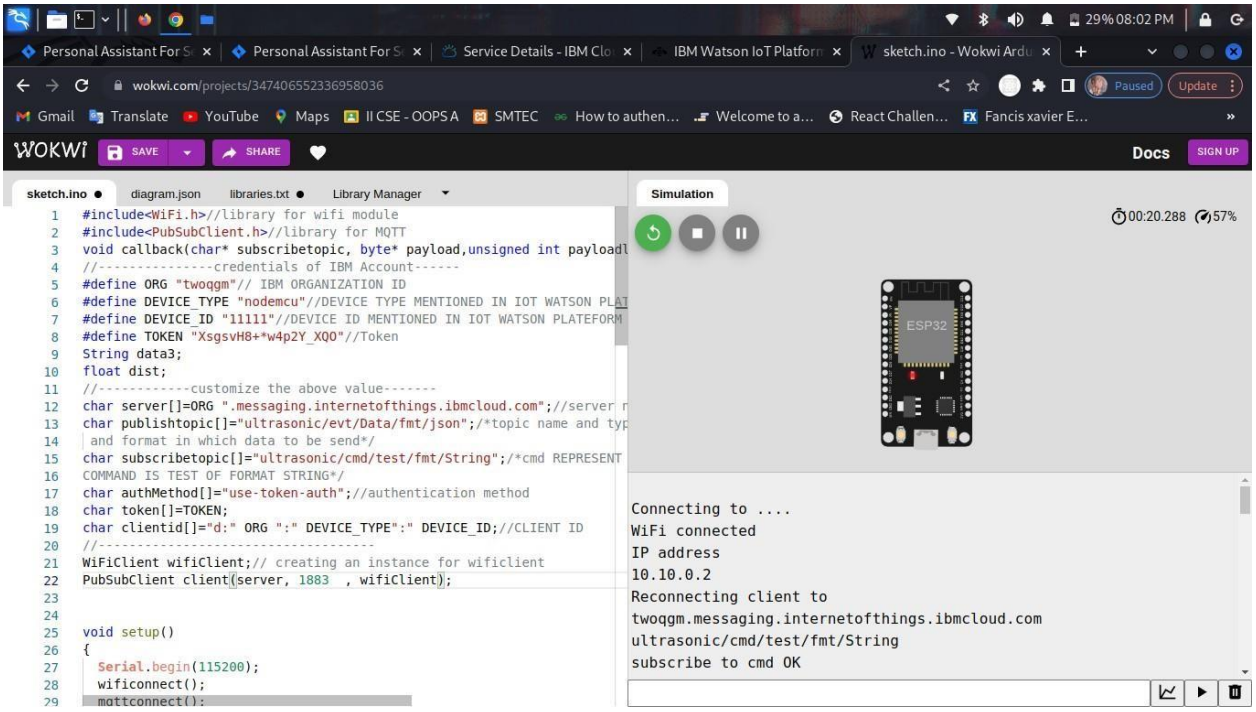
Wokwi url: https://wokwi.com/projects/347406552336958036

Code:

```
#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 "twoqgm"// IBM ORGANIZATION ID
#define DEVICE_TYPE "nodemcu"//DEVICE TYPE MENTIONED IN IOT WATSON PLATFORM
#define DEVICE_ID "11111"//DEVICE ID MENTIONED IN IOT WATSON PLATEFORM
```

```
#define TOKEN "XsgsvH8+*w4p2Y_XQO"//Token
String data3;
float dist;
//------------customize 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 and
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 cloud.....*/ 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");
}
}
```



Jira process:

Url: https://pnt2022tmid50622.atlassian.net/jira/software/projects/PAFSCII/boards/1