

TEAM ID	PNT2022TMID22828
PROJECT NAME	Smart farmer-IoT enabled smart farm application
NAME	Kamalakannan R

ASSIGNMENT 4:

Write code and connections in wokwi for ultrasonic sensors.

Distance is less than 100 cms send "alert" to ibm cloud and display in device receiver

Client.h>

;

;

#include "nodeMcu.h"

Assignment4

456789"

.

".messaging.internetofthings.ibmcloud.com";

= "iot-2/evt/Data/fmt/json";

2/cmd/home/fmt/String";

= "Use-token-auth";

END;

ORG " " DEVICE_TYPE " " DEVICE_ID;

server, 1883, wifiClient);

3;

```
nnected, IP address: 11 ); Serial.println(WiFi.localIP());
```

```
d()) {  
connecting MQTT client to"); Serial.println(server);  
nect(clientId, authMethod, token)) {
```

```
e());
```

```
rice() {  
topic)) {  
ent.subscribe(topic);  
subscribe to cmd OK");
```

```
scribe to cmd FAILED");
```

```
OW);  
HIGH);  
(10);  
OW);  
chopin,H[GH);  
d/2;
```

```
{"Normail Distance\":";
```

```
ling payload:");
```

Output

```
Distance":89.95}
```

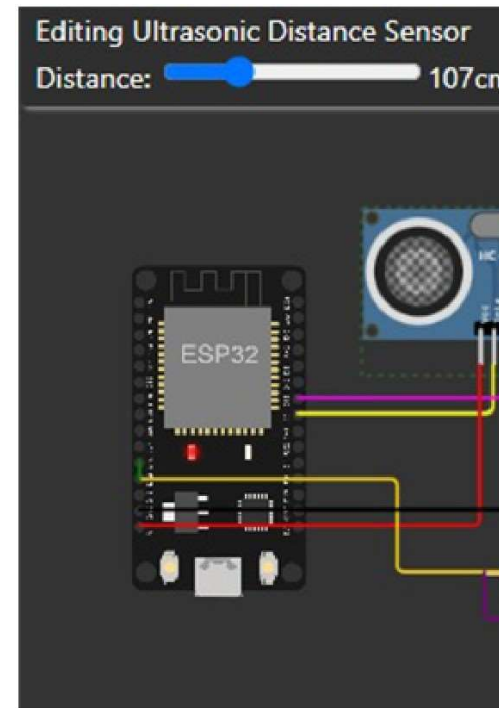
```
Distance":89.95}
```

```
Distance":89.95}
```

```
Distance":89.98}
```

```
Distance":89.95}
```

```
Distance":89.95}
```



```
Sending payload:{"Alert di  
Warning crosses 110cm -- it
```

```
Sending payload: {"Alert di  
Warning crosses 110cm -- it
```

```
Sending payload: {"Alert di  
Warning crosses 110cm -- it
```

```
Sending payload: {"Alert di  
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```

```
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```

```
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```

Node MCU