

## ASSIGNMENT – 04

DATE	17 OCTOBER 2022
TEAM ID	PNT2022TMID06972
NAME	ABIRAMI B
STUDENT ROLL NUMBER	GCTC1918101
MAXIMUM MARKS	2 MARKS

### QUESTION:

Write code and connections in wokwi for the ultrasonic sensor.

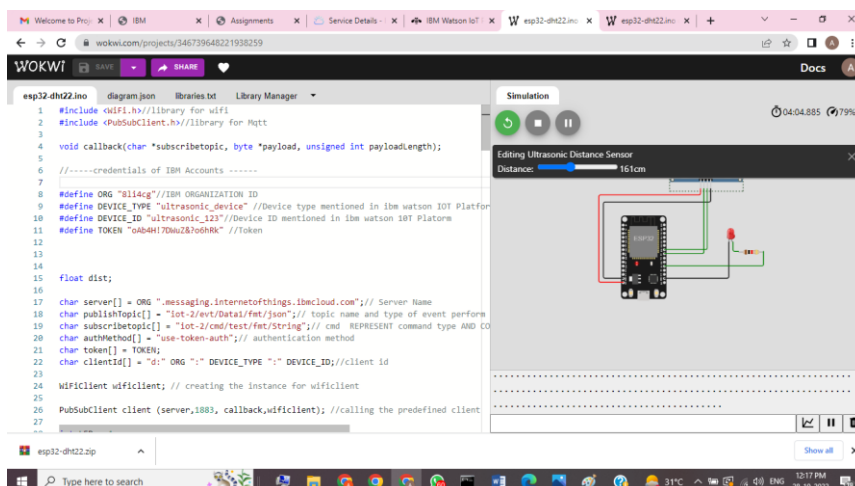
Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events.

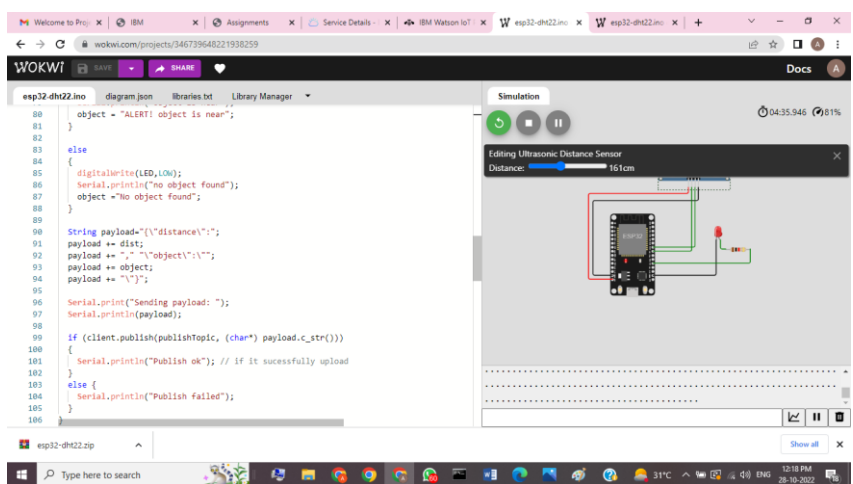
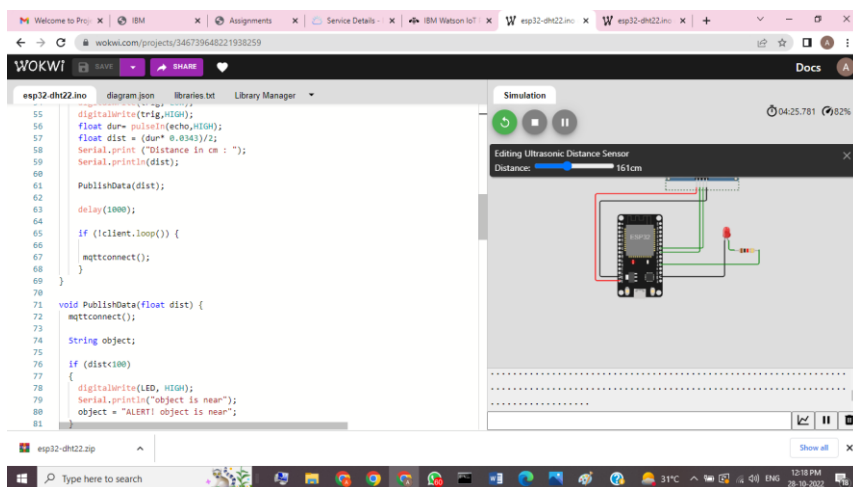
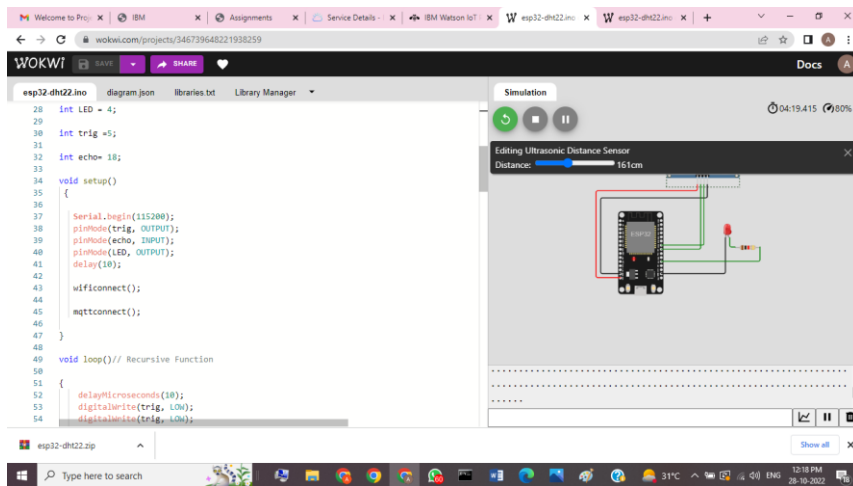
Upload document with wokwi share link and images of IBM cloud

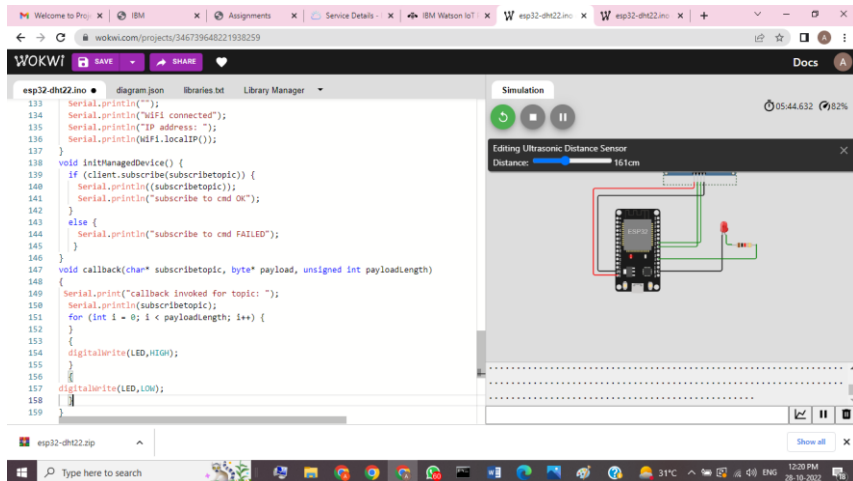
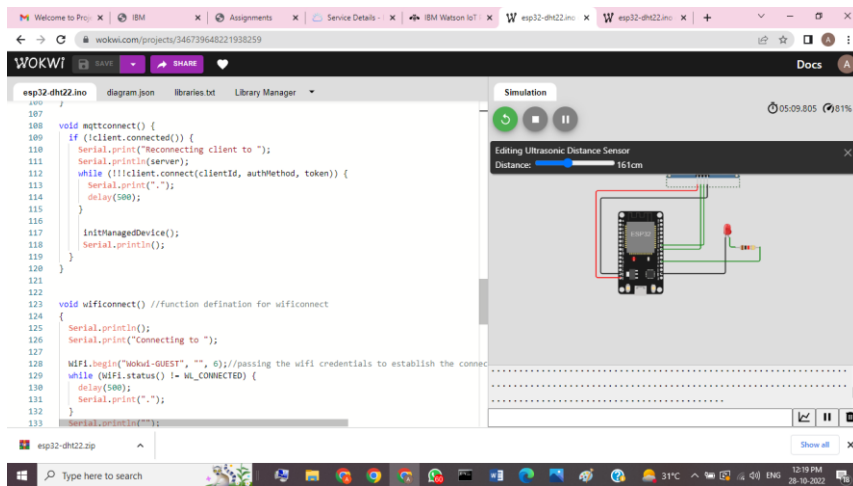
### WOKWI CODE AND IMPLEMENTATION LINK:

<https://wokwi.com/projects/346739648221938259>

### CODE :

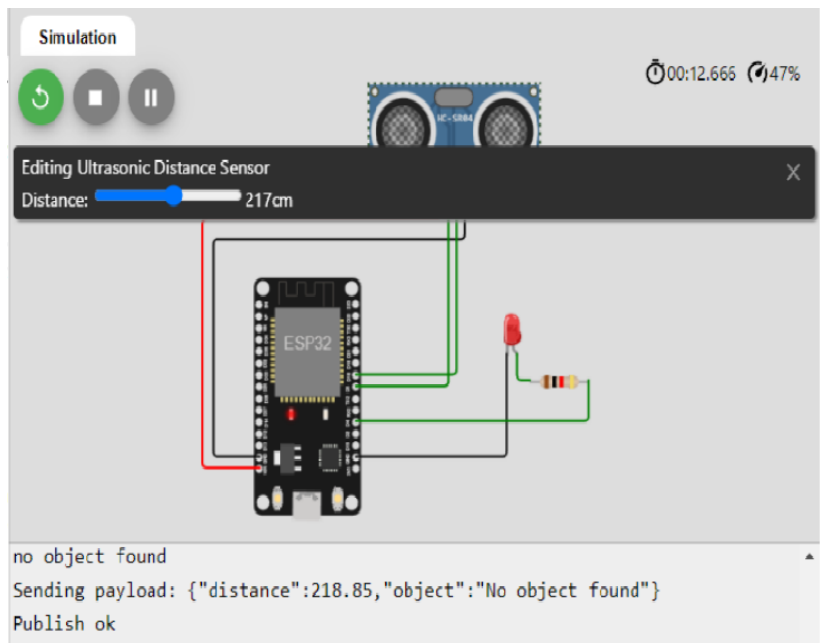






## OUTPUT :

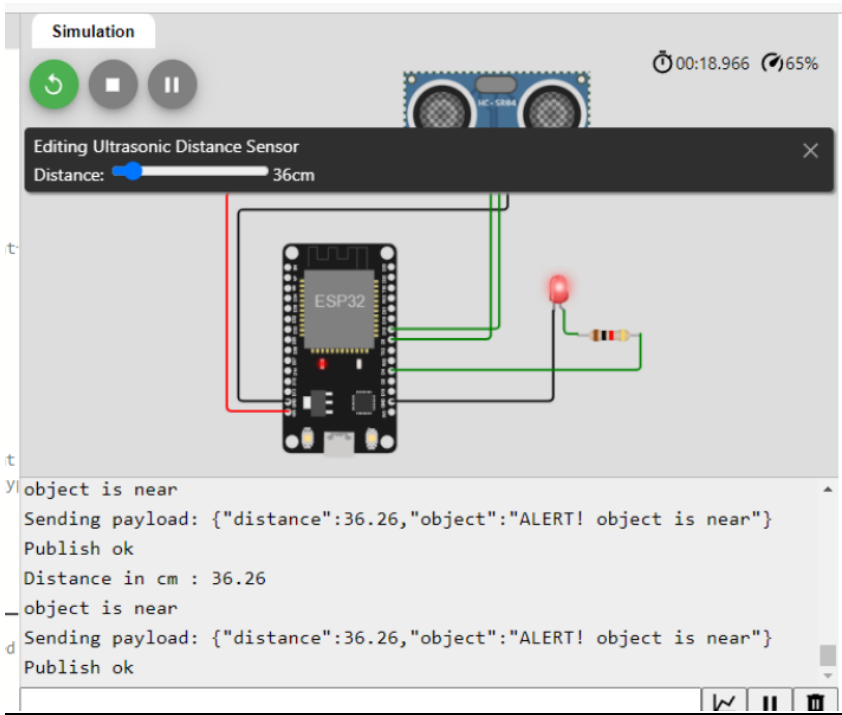
When the object is far (greater than 100 cms), send “no object found” to the IBM Watson IOT Platform.



## IBM CLOUD IMAGE :

Connection Information	Recent Events			
Recent Events	The recent events listed show the live stream of data that is coming and going from this device.			
State	Event	Value	Format	Last Received
Device Information	Data1	{"distance":218.85,"object":"No object found"}	json	a few seconds ago
Metadata	Data1	{"distance":218.85,"object":"No object found"}	json	a few seconds ago
Diagnostics	Data1	{"distance":218.85,"object":"No object found"}	json	a few seconds ago
Connection Logs	Data1	{"distance":218.85,"object":"No object found"}	json	a few seconds ago
Device Actions	Data1	{"distance":218.85,"object":"No object found"}	json	a few seconds ago

When the distance is less than 100 cms, send an “alert” message to IBM Watson IOT Platform



**IBM CLOUD IMAGE :**

Connection Information	Recent Events			
Recent Events	The recent events listed show the live stream of data that is coming and going from this device.			
State	Event	Value	Format	Last Received
Device Information	Data1	{"distance":36.31,"object":"ALERT! object is near"}	json	a few seconds ago
Metadata	Data1	{"distance":36.31,"object":"ALERT! object is near"}	json	a few seconds ago
Diagnostics	Data1	{"distance":36.26,"object":"ALERT! object is near"}	json	a few seconds ago
Connection Logs	Data1	{"distance":36.26,"object":"ALERT! object is near"}	json	a few seconds ago
Device Actions	Data1	{"distance":36.26,"object":"ALERT! object is near"}	json	a few seconds ago