Industrial IoT Minor

Name: Kshitij Kumar Sharma Roll No: 1905514 Branch: CSE

Experiment - 8

**AIM**: Write a program on ESP32/Raspberry Pi to publish DHT11 data through MQTT protocol.

**OBJECTIVE**: to publish DHT11 data through MQTT protocol in MQTTBox.

**THEORY**: MQTT is a lightweight, publish-subscribe, machine to machine network protocol for Message queue/Message queuing service. It is designed for connections with remote locations that have devices with resource constraints or limited network bandwidth.

**METHODOLOGY:**

Software Required:

Download MQTT Box from Google chrome either mobile or PC

* Open MQTT box
* Create MQTT client
* Once create client give a MQTT client name.
* Select Protocol of MQTT/TCP
* Username & Password make it blank.
* Don’t touch the MQTT client ID
* Host Broker (broker.hivemq.com)
* Save

**RESULT:**

**CONCLUSION**: After performing this experiment we were able to to retrieve temperature and humidity data from DTH11/DTH22 to thingspeak cloud.

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