

CODD2.py - C:/Users/91701/AppData/Local/Programs/Python/Python37/CODD2.py (3.7.0)

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```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "no6686"
deviceType = "NodeMCU"
deviceId = "123"
authMethod = "token"
authToken = "12345678"

def myCommandCallback (cmd):
    print ("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status== "motoron":
        print ("motor is on")
    elif status == "motoroff":
        print ("motor is off")
    else:
        print ("please send proper command")

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":authMethod, "auth-token":authToken}
    deviceCli= ibmiotf.device.Client (deviceOptions)
    #..
except Exception as e:
    print ("Caught evention connecting device: %s" %str(e))
    sys.exit()
deviceCli.connect()
while True:
    temp=random.randint (90,110)
    Humid=random.randint (60,100)
    Ph=random.randint (0,14)
    Water_turbidity=random.randint (15,60)
    data = {'temp' : temp, 'Humid': Humid, 'Ph' : Ph, 'Water_turbidity':Water_turbidity}
    def myonPublishCallback():
        print ("Published Temperature = %s C" %temp, "Humidity=%s%%"%Humid,"Ph = %s" % Ph,"Water Turbidity = %s NTU" %Water_turbidity,"toIBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,on_publish = myonPublishCallback)
    if not success:
        print("Not connected to IOTF")
        time.sleep (10)
        deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
```

```
*Python 3.7.0 Shell*
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Watson
Published Temperature = 98 C Humidity=94% Ph = 1 Water Turbidity = 23 NTU toIBM
Watson
Published Temperature = 105 C Humidity=96% Ph = 11 Water Turbidity = 15 NTU toIBM
M Watson
Published Temperature = 96 C Humidity=79% Ph = 2 Water Turbidity = 60 NTU toIBM
Watson
Published Temperature = 107 C Humidity=97% Ph = 9 Water Turbidity = 31 NTU toIBM
Watson
Published Temperature = 105 C Humidity=74% Ph = 3 Water Turbidity = 28 NTU toIBM
Watson
Published Temperature = 101 C Humidity=80% Ph = 10 Water Turbidity = 59 NTU toIBM
M Watson
Published Temperature = 103 C Humidity=94% Ph = 6 Water Turbidity = 23 NTU toIBM
Watson
Published Temperature = 90 C Humidity=62% Ph = 8 Water Turbidity = 56 NTU toIBM
Watson
Published Temperature = 100 C Humidity=60% Ph = 11 Water Turbidity = 47 NTU toIBM
M Watson
Published Temperature = 94 C Humidity=91% Ph = 0 Water Turbidity = 59 NTU toIBM
Watson
Published Temperature = 90 C Humidity=98% Ph = 13 Water Turbidity = 57 NTU toIBM
Watson
Published Temperature = 108 C Humidity=94% Ph = 4 Water Turbidity = 16 NTU toIBM
Watson
Published Temperature = 100 C Humidity=60% Ph = 14 Water Turbidity = 32 NTU toIBM
M Watson
Published Temperature = 101 C Humidity=63% Ph = 2 Water Turbidity = 20 NTU toIBM
Watson
Published Temperature = 107 C Humidity=85% Ph = 8 Water Turbidity = 23 NTU toIBM
Watson
Published Temperature = 92 C Humidity=69% Ph = 11 Water Turbidity = 60 NTU toIBM
Watson
Published Temperature = 105 C Humidity=91% Ph = 9 Water Turbidity = 19 NTU toIBM
Watson
Published Temperature = 106 C Humidity=65% Ph = 9 Water Turbidity = 25 NTU toIBM
Watson
Published Temperature = 104 C Humidity=96% Ph = 12 Water Turbidity = 54 NTU toIBM
M Watson
```

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Add Device 

 Search by Device ID

Device Simulator   

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	
	 123	 Connected	NodeMCU	Device	Nov 16, 2022 12:01 AM		
Identity Device Information Recent Events State Logs 							
The recent events listed show the live stream of data that is coming and going from this device.							
Event	Value	Format	Last Received				
IoTSensor	{"temp":110,"Humid":60,"Ph":8,"Water_turbidity..."}	json	a few seconds ago				
IoTSensor	{"temp":108,"Humid":81,"Ph":10,"Water_turbidity..."}	json	a few seconds ago				
IoTSensor	{"temp":106,"Humid":75,"Ph":10,"Water_turbidit..."}	json	a few seconds ago				
IoTSensor	{"temp":101,"Humid":87,"Ph":1,"Water_turbidity..."}	json	a few seconds ago				
IoTSensor	{"temp":103,"Humid":60,"Ph":12,"Water_turbidit..."}	json	a few seconds ago				