Date	3 november 2022
Team ID	PNT20222TMID20020
Project Name	Real-Time River Water Quality Monitoring and Control System.
Maximum Marks	2 Marks

index1.py - D:\ibm\index1.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 = "kpglcf"
deviceType = "real"
deviceId = "1801"
authMethod = "token"
authToken = "Jayantha"

# Initialize GPIO
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 exception connecting device: %s" % str(e))
        sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()

while True:
        #Get Sensor Data from DHT11

        ph=random.randint(0,7)
        turb=random.randint(60,100)

        data = { 'ph' : ph, 'turb': turb }
        #print data
        def myOnPublishCallback():
            print ("Published PH Level = %s C" % ph, "Turbidity = %s %%" % turb, "to IBM Watson")
```