Publish Data to IBM Cloud

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Team ID	PNT2022TMID45388		
Project Name	Real-Time River Water Quality Monitoring and Control System		

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Python Code:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "x4vgqf"
deviceType = "absar2022"
deviceId = "absarid"
authMethod = "token"
authToken = "7YPz)vgxfokT83mkf3"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  elif status == "lightoff":
    print ("led is off")
  else:
    print ("please send proper command")
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
    temp=random.randint(90,110)
    Humid=random.randint(60,100)
    data = { 'temp' : temp, 'Humid': Humid }
    #print data
    def myOnPublishCallback():
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print ("Published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid, "to IBM 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
```

Disconnect the device and application from the cloud

deviceCli.disconnect()