Sprint-2

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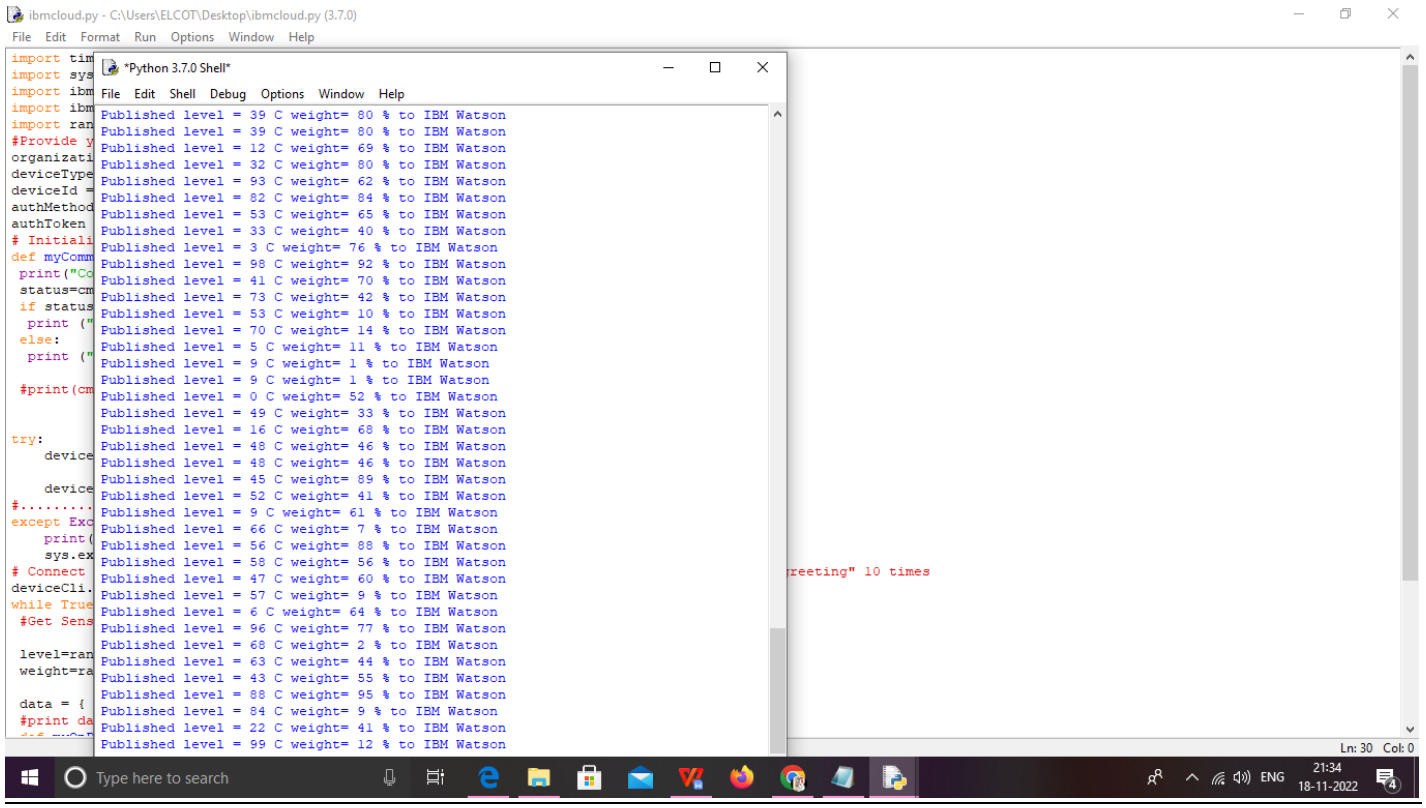
TEAM ID	PNT2022TMID13267
PROJECT NAME	SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES

Python code to connect ibm watson

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "vi4esk"
deviceType = "sudhan"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
 print("Command received: %s" % cmd.data['command'])
 status=cmd.data['command']
 if status=="alarmon":
  print ("Alarm is on")
 else:
  print ("Alarm is off")

 #print(cmd)


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

 level=random.randint(0,100)
 weight=random.randint(0,100)

 data = { 'level' : level, 'weight': weight }
 #print data
 def myOnPublishCallback():
    print ("Published level = %s C" % level, "weight= %s %%" % weight, "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()
```

Output image:



Ibm watson image: