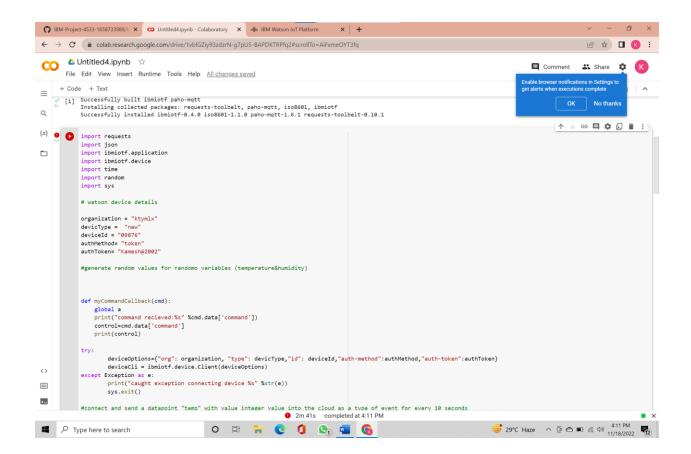
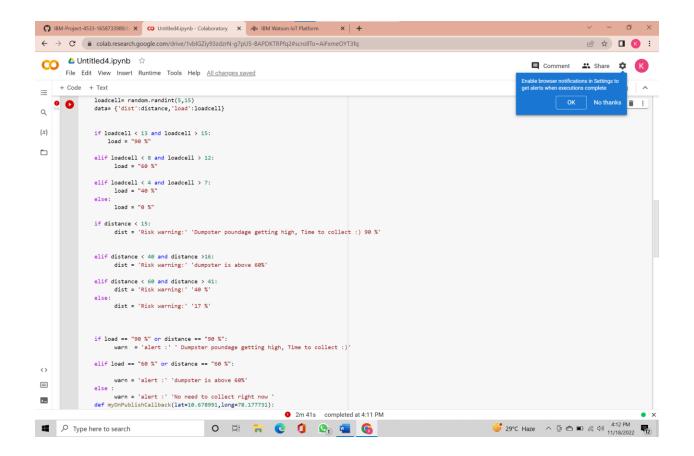
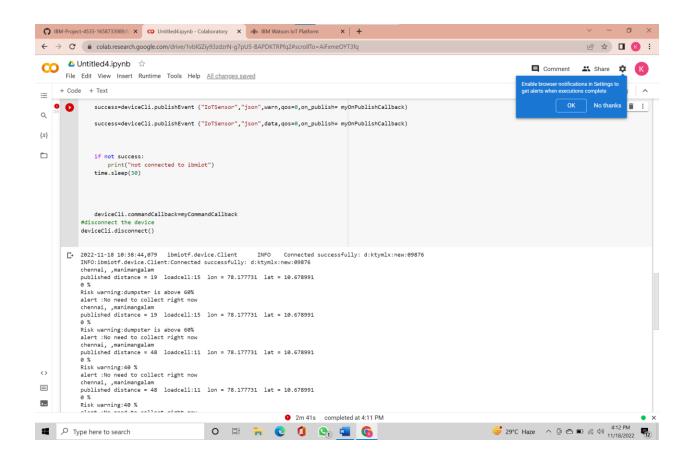
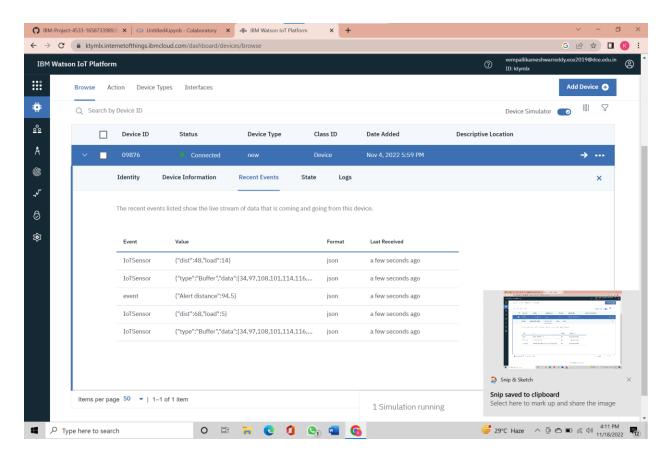
Python code

Team id: PNT2022TMID28837









Code:

import requests

```
import json
import ibmiotf.application
import ibmiotf.device
import time
import random
import sys
# watson device details
organization = "ktymlx"
devicType = "new"
deviceId = "09876"
authMethod= "token"
authToken= "Kamesh@2002"
#generate random values for randomo variables (temperature&humidity)
def myCommandCallback(cmd):
   global a
   print("command recieved:%s" %cmd.data['command'])
    control=cmd.data['command']
    print(control)
try:
```

```
deviceOptions={"org": organization, "type": devicType,"id": device
Id, "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 "temp" with value integer value into the clo
ud as a type of event for every 10 seconds
deviceCli.connect()
while True:
    distance= random.randint(10,70)
    loadcell= random.randint(5,15)
    data= {'dist':distance,'load':loadcell}
    if loadcell < 13 and loadcell > 15:
        load = "90 %"
    elif loadcell < 8 and loadcell > 12:
          load = "60 %"
    elif loadcell < 4 and loadcell > 7:
```

```
load = "40 %"
   else:
         load = "0 %"
   if distance < 15:
         dist = 'Risk warning:' 'Dumpster poundage getting high, Time to
collect :) 90 %'
    elif distance < 40 and distance >16:
          dist = 'Risk warning:' 'dumpster is above 60%'
    elif distance < 60 and distance > 41:
         dist = 'Risk warning:' '40 %'
    else:
         dist = 'Risk warning:' '17 %'
    if load == "90 %" or distance == "90 %":
         warn = 'alert :' ' Dumpster poundage getting high, Time to coll
ect :)'
   elif load == "60 %" or distance == "60 %":
```

```
warn = 'alert :' 'dumpster is above 60%'
    else :
          warn = 'alert :' 'No need to collect right now '
    def myOnPublishCallback(lat=10.678991,long=78.177731):
        print("chennai, ,manimangalam")
        print("published distance = %s " %distance,"loadcell:%s " %loadcel
1,"lon = %s " %long,"lat = %s" %lat)
        print(load)
        print(dist)
        print(warn)
    time.sleep(10)
    success=deviceCli.publishEvent ("IoTSensor", "json", warn, qos=0, on publi
sh= myOnPublishCallback)
    success=deviceCli.publishEvent ("IoTSensor", "json", data, qos=0, on publi
sh= myOnPublishCallback)
    if not success:
        print("not connected to ibmiot")
    time.sleep(30)
```

deviceCli.commandCallback=myCommandCallback
#disconnect the device
deviceCli.disconnect()