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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": deviceId, "auth-
method":authMethod,"auth-token":authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
```

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sys.exit()
#connect and send a datapoint "temp" with value integer value into the cloud 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%'
```

print("caught exception connecting device %s" %str(e))

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elif distance < 60 and distance > 41:
     dist = 'Risk warning:' '40 %'
  else:
     dist = 'Risk warning:' '17 %'
  if load == "90 %" or distance == "90 %":
     warn = 'alert:' 'Risk Warning: Dumpster poundage getting high, Time to collect:)'
  elif load == "60 %" or distance == "60 %":
     warn = 'alert :' 'dumpster is above 60%'
  else:
     warn = 'alert:' 'No need to collect right now '
  def myOnPublishCallback(lat=10.939091,long=78.135731):
    print("Puliyur, Karur")
    print("published distance = %s " %distance,"loadcell:%s " %loadcell,"lon = %s " %long,"lat = %s"
%lat)
    print(load)
    print(dist)
    print(warn)
  time.sleep(5)
  success=deviceCli.publishEvent ("IoTSensor", "json", warn, qos=0, on_publish=
myOnPublishCallback)
  success=deviceCli.publishEvent ("IoTSensor", "json", data, qos=0, on_publish= myOnPublishCallback)
```

```
if not success:
    print("not connected to ibmiot")
time.sleep(5)
```

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