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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 received:%s" %cmd.data['command'])
  Control=cmd.data['command']
  Print(control)
Try:
    deviceOptions={"org": organization, "type": devicType,"id": deviceId,"auth-
method":authMethod,"auth-token":authToken}
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```
deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("caught exception connecting device %s" %str€)
    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 %'
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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 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("Bustand, manimangalam")
    print("published distance = %s " %distance,"loadcell:%s " %loadcell,"lon = %s " %long,"lat = %s"
%lat)
    print(load)
    print(dist)
    print(warn)
```

```
time.sleep(10)
  success = device Cli.publish Event \ ("IoTSensor"," json", warn, qos = 0, on\_publish = myOnPublish Callback)
  success=device Cli.publish Event \ ("IoTSensor"," json", data, qos=0, on\_publish=myOnPublish Callback)
  if not success:
    print("not connected to ibmiot")
  time.sleep(30)
  device Cli. command Callback = my Command Callback \\
#disconnect the device
deviceCli.disconnect()
```