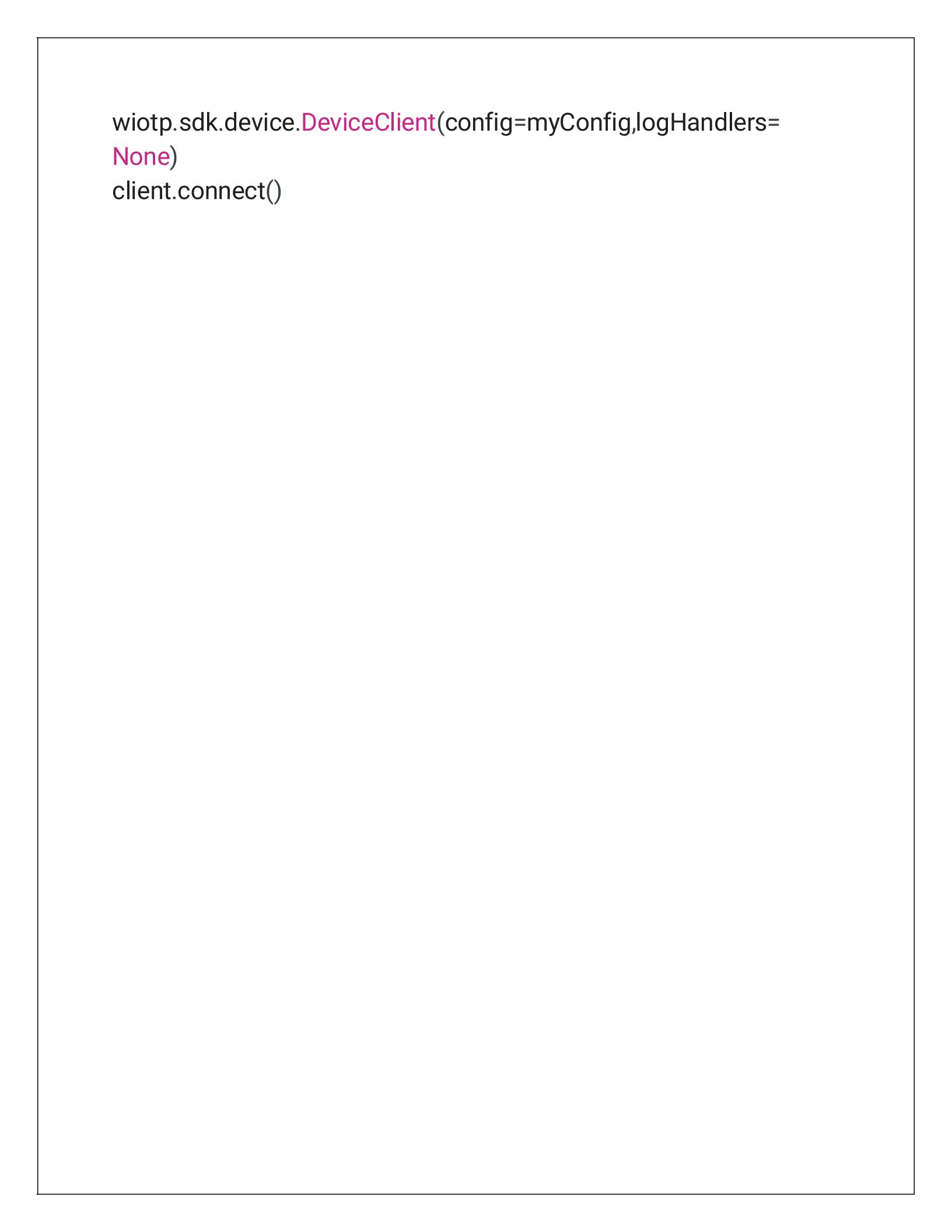
```
#Project: Smart Waste Management System for Metropolitan
cities#Team ID:PNT2022TMID30432
#Installing necessary
librariesimport
wiotp.sdk.device import
time
import
random
import
requests
import math
#Configuration details for connecting python script to IBM Watson
IOTPlatform
myConfig = {
"identity": {
"orgId": "mldk59",
"typeId": "pythoncode",
"deviceId":"252525"
"auth": {
"token": "QZqODYo6U*Q6b+IpuC"
}}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
  m=cmd.data['command']
#Connecting the client to ibm watson iot platform
client =
```



#Generate Random values for latitude, longitude in a circular distribution from the current location and #alert the garbage collector to go to the particular location where the binlevel and bin weight exceeds the threshold

while True:

```
res =
  requests.get('https://ipinfo.io/')
  data = res.json()
  loc = data['loc'].split(',')
  theta =
  random.uniform(0,2*math.pi)area
  = (0.05**2)*math.pi
  radius = math.sqrt(random.uniform(0,area/math.pi))
  latitude,longitude = [float(loc[0])+radius*math.cos(theta),
  float(loc[1]
)+radius*math.sin(theta)]
  binlevel=random.randint(10,100)
  binweight =
  random.randint(50,1500)
  if binweight>=1000 and binlevel>80:
    myData={'latitude':latitude,
         'longitude':longitude,'binlevel':binlevel,
         'binweight':binweight}
    client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0,
    onPublish=None)
    ##print("Published data Successfully: %s", myData)
    print("BIN IS FULL..TIME TO EMPTY IT!!!!\n",myData)
```

```
client.commandCallback =
  myCommandCallbacktime.sleep(2)
  #break
else:
  print("BIN IS IN NORMAL LEVEL...")
 time.sleep(2)
```

