DELIVERY OF SPRINT 1

TEAM ID	PNT2022TMID50056
PROJECT NAME	IOT based Smart Waste Management System in metropolitan cities

Sprint 1

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "1hdx6w"
deviceType = "sprint_1"
deviceId = "12345678"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="smart bin opened":
    print ("The Smart Bin is Open now")
  else:
    print ("The Smart Bin is Close now")
#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:
    distance=random.randint(0,200)
    weight=random.randint(0,10)
    data = { 'distance' : distance, 'weight': weight }
    def myOnPublishCallback():
      print ("Published Data to IOT Watson: \n Distance= %s cm\n" % distance, " Weight = %s Kg\n" %
weight)
    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()

```
sprint_1.py - C:/Users/Admin/Desktop/sprint_1.py (3.7.0)
 File Edit Format Run Options Window Help
  mport time
  import ibmiotf.device
     ort random
 import random
#Provide your IBM Watson Device Credentials
organization = "lhdx6w"
deviceType = "sprint_1"
deviceId = "l2345678"
authMethod = "token"
authToken = "12345678"
 if status=="smart bin opened":
   print ("The Smart Bin is Open now")
      else
 print ("The Smart Bin is Close now")

#print(cmd)
      deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
      deviceCij = ibmiotf.device.Client(deviceOptions)|

pt 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()
           weight=random.randint(0,10)
          data = ( 'distance' : distance, 'weight': weight )

def myOnPublishCallback():
   print ("Published Data to IOT Watson: \n Distance= %s cm\n" % distance, " Weight = %s Kg\n" % weight)

success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on publish=myOnPublishCallback)
          if not success:
                                   nnected to IoTF")
                print ("Not
                time.sleep(10)
 deviceCli.commandCallback = myCommandCallback

‡ Disconnect the device and application from the cloud

deviceCli.disconnect()
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