

DEVELOPING THE PYTHON SCRIPT

TEAM ID	PNT2022TMID14780
PROJECT NAME	IoT Based Smart Crop Protection System For Agriculture

LOCATION DATA :

```
import wiotp.sdk.device
import time
import random
myConfig={
"identity": (
"orgId": "gagtey",
"typeId": "GPS",
"deviceId":"12345"},
"auth": {
"token": "12345678"
}}
def myCommandCallback (cmd):
print ("Message received from IBM IoT Platform: %s"
%cmd.data['command']) m-cmd.data['command']
client= wiotp.sdk.device.DeviceClient (config=myConfig,
logHandlers=None)
client.connect()
def pub (data):
client.publishEvent (eventId="status", msgFormat="json",
data=myData, qos=0, print("Published data Successfully:
%s",myData))
```

```
while True:
myData={'name': 'Train1', 'lat': 17.6387448, 'lon':
78.4754336)
pub (myData)
time.sleep (3)
#myData({'name': 'Train2', 'lat': 17.6387448, 'lon':
78.4754336)
#pub (myData)
#time.sleep (3)
myData={'name': 'Train1', 'lat': 17.6341908, 'lon':
78.4744722)
pub (myData)
time.sleep(3)
myData={'name': 'Train1', 'lat': 17.6340889, lon': 78.4745052)
pub (myData)
time.sleep(3)
myData={'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259)
pub (myData)
time.sleep (3)
myData={'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726)
pub (myData)
time.sleep (3)
myData={'name': 'Train1', 'lat': 17.6132382, 'lon':
78.4707318)
pub (myData)
time.sleep (3)
client.commandCallback =myCommandCallback client.disconnect()
```

QR SCANNER CODE:

```
Import cv2
import numpy as np
import time
Import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import
BasicAuthenticator
authenticator= BasicAuthenticator ('apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz',
'b0ab119f45d3e6255eabb978
service Cloudant V1 (authenticator-authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119
f45d3e6255eabb978e7e2f0
cap= cv2.VideoCapture (0)
font cv2.FONT_HERSHEY
PLAIN
while True:
frame cap.read()
decodedobjects pyzbar.decode (frame)
for obj in decodedObjects:
#print ("Data", obj.data)
a=obj.data.decode('UTF-8')
cv2.putText (frame, "Ticket", (50, 50), font, 2,
(255, 0, 0), 3)
```

```
#print (a)

try: response = service.get_document (
db='booking, doc_id = a
).get_result()
print (response) time.sleep(5)
except Exception as e:
print ("Not a Valid Ticket")
time.sleep (5)
cv2.imshow("Frame", frame)
if cv2.waitKey(1) &
0xFF==ord('q'):break
cap.release()
cv2.destroyAllWindows()
client.disconnect()
```