DEVELOPING PYTHON SCRIPT

TEAM ID	PNT2022TMID42171
PROJECT NAME	IOT Based Smart Crop Protection System for Agriculture

LOCATION DATA:

```python
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):
```

```python
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':

'Trainl', 'lat': 17.6340889, lon': 78.4745052) pub (myData)

time.sleep(3) myData={'name': 'Trainl', 'lat': 17.6248626,

'lon': 78.4720259) pub (myData) time.sleep (3)

myData={'name': 'Trainl', '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:

```python
Import cv2 import

numpy as np  import
```

```python
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) aobj.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()
```