DEVELOPING PYTHON SCRIPT

TEAM ID	PNT2022TMID44775
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': '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 =
myCommandCallbackclient.disconnect()
```

QR SCANNER CODE:

Import cv2

import numpy as np

import time

Import pyzbar.pyzbar as pyzbar

from ibmcloudant_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:b0ab11 9 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()