DEVELOPING PYTHON SCRIPT

IOT BASED CROP PRODECTION AGRICULTURE SYSTEM

TEAM ID	PNT2022TMID30091
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.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-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3
ubz: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()
```