

DEVELOPING PYTHON SCRIPT

TEAM ID	PNT2022TMID26689
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 =
```

```
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 = CloudantV1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119f45d3e6255eabb978e7e2f0@cap.cloudant.com')
cap = cv2.VideoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN

while True:
    frame, decoded_objects = pyzbar.decode(frame)
    for obj in decoded_objects:
        # 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
        )
    except:
        pass

```

```
).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()
```