

DEVELOPING PYTHON SCRIPT

Project Name: Project - IOT based safety gadget for child safety monitoring and notification

CODING :

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()
```