

DEVELOPING PYTHON SCRIPT

Date	29 /10/ 2022
Team ID	PNT2022TMI21776
Project Name	Project - IOT based safety gadget for child safety monitoring and notification

CODE :

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:b0a
b119 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
s () client.disconnect(
```