

## DEVELOPING PYTHON SCRIPT

Date	29 October 2022
Team ID	PNT2022TMID43259
Project Name	Project - IOT based saftey 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: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(

```