

DEVELOP THE PYTHON SCRIPT

PYTHON SCRIPT

Date	07 November 2022
Team ID	PNT2022TMID12772
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring & Notification

```
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')
```

```
        b-
```

```
        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()`