

DEVELOPING PYTHON SCRIPT

Date	29 OCTOBER 2022
Team ID	PNT2022TMID45386
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': 'TrainI', 'lat': 17.6340889, lon': 78.4745052)

pub (myData)

time.sleep(3)

myData={'name': 'TrainI', 'lat': 17.6248626, 'lon': 78.4720259)

pub (myData)

time.sleep (3)

myData={'name': 'TrainI', '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(
```