

DEVELOPING PYTHON SCRIPT

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Team ID	PNT2022TMID36121
Project Name	Project – IOT based safety gadget for child safety monitoring and notification
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CODE :

LOCATION DATA:

```
import
wiotp.sdk.device
import time
import random
myConfig={
"identity": {
"orgId":
"gateway",
"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

)
myData={'name': 'Train1', 'lat': 17.6340889, lon':
78.4745052)pub (myData)
time.sleep(3)

```

```

myData={'name': 'Trainl', 'lat': 17.6248626, 'lon':
78.4720259})pub (myData)
time.sleep (3)
myData={'name': 'Trainl', '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 =
myCommandCallbackclient.disconnect()

```

QR SCANNER CODE:

```

Import cv2
import numpy as
npimport time
Import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import
CouchDbSessionAuthenticatorfrom ibm_cloud_
sdk_core.authenticators import BasicAuthenticator
authenticator= BasicAuthenticator ('apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ub
z','b0ab119f45d3e6255eabb978
service Cloudant V1 (authenticator-authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab
119 f45d3e6255eabb978e7e2f0
cap= cv2.VideoCapture (0) font cv2.FONT
HERSHEY

```

PLAIN

while True:

frame = cap.read()

decoded_objects = pyzbar.decode

(frame) for obj in decoded_objects:

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(

