

DEVELOPING PYTHON SCRIPT

Date	29 October 2022
Team ID	PNT2022TMID47674
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":
"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(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-
16u3crmdpkghhxfdikvpssoh5fwezrmuup5fv5g3
ubz', 'b0ab119f45d3e6255eabb978
service Cloudant V1 (authenticator-authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkghhxfdikvpssoh5fwezrmuup5fv5g3ubz: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
() client.disconnect(
```