

DEVELOPING A PYTHON SCRIPT

Date	01 November 2022
Team ID	PNT2022TMID14748
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={ "id
entity":
( "orgId":
"gagtey",
"typeld":
"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 =
myComandCallbackclient.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-
16u3crmdpkghhxfdikvpssoh5fwezrmuup5fv5g3u
bz', 'b0ab119f45d3e6255eabb978
service Cloudant V1 (authenticator-authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkghhxfdikvpssoh5fwezrmuup5fv5g3ubz:b0
ab119 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(
```

