**SOURCE PROGRAM**

import wiotp.sdk.device

import time

import random

myConfig={

"identity": {

"orgId": "kbzwt4",

"typeId": "NodeMCU",

"deviceId": "12345"

},

"auth": {

"token": "12345678"

}

}

def myCommandCallback(cmd):

print("msg 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,onPublish=None)

print("Published data successfully:%s",myData)

while True:

myData={'name':'train1','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 CODE**

from http import client

import cv2

import pyzbar

from pyzbar.pyzbar import decode

import time

from ibmcloudant.cloudant\_v1 import CloudantV1

from ibmcloudant import CouchDbSessionAuthenticator

from ibm\_cloud\_sdk\_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-rsy830cz1zi58n2c6r65zltdnil5hsvuehtcomsrbbe', '8c8217f7524c8e496de81adc45fd866d')

service = CloudantV1(authenticator=authenticator)

service.set\_service\_url('https://apikey-v2-rsy830cz1zi58n2c6r65zltdnil5hsvuehtcomsrbbe:8c8217f7524c8e496de81adc45fd866d@ba67c7fa-520d-4bdc-9344-0a240f78077b-bluemix.cloudantnosqldb.appdomain.cloud')

cap= cv2.VideoCapture(0)

font = cv2.FONT\_HERSHEY\_PLAIN

while True:

\_, frame = cap.read()

decodedObjects = 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='ibm\_railways',

doc\_id = a

).get\_result()

print (response)

time.sleep(5)

except Exception as e:

print(a)

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()