

DEVELOP THE PYTHON SCRIPT-DEVELOP THE PYTHON SCRIPT

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Team ID	PNT2022TMID45560
Project Name	SMART SOLUTION FOR RAILWAY SYSTEM

```

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("publishe 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)

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time.sleep(3)
mydata={'name':'Train1','lat':17.6132382,'lon': 78.4707318)
pub(myData)
time.sleep(3)
client.commandCallback=mycommanCallbak
client.disconnect()

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import cv2
import numpy as np
import time
import pyzbar.pyzbar as puzbar
from ibmcloudant.cloudant_v1 import cloudantv1
from ibmcloudant import couchDbSessionAuthenticator
from ibm_cloud_sdk_core.Authenticators import BasicAuhtenticator

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authenticator=BasicAuthenticator('apikey-v2-
16u3crmdpkgghxefdikvpssoh5fwezrmuup5fv5g3ubz','b0ab119f45d3e6255eabb978)
service =cloudantv1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkgghxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119f45d3e6255eabb978

```

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cap = cv2.VideoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN

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while True:
    _, frame = cap.read(0)
    decodeObjects = pyzbar.decode(frame)
    for obj in decodeObjects:
        #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:
            responce = service.get_document (
                db='booking',
                doc_id = a
            ).get_result()
            print(response)
            time.sleep(5)
        except Exception as e:
            print ("Not valid Ticket")
            time.sleep(5)

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cap.imshow("Frame", frame)
if cv2.waitKey(1) & 0xFF == ord('q'):
    break

```

```
cap.release()  
cv2.destroyAllWindows()  
client.disconnect()
```