**DEVELOPING PYTHON SCRIPT**

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| **Team ID** | **PNT2022TMID40963** |
| **Project Name** | **IOT based smart crop protection system for agriculture** |

**DEVELOPING PYTHON SCRIPT**

**LOCATION DATA:**

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("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': 'Trainl', '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 = 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-v2-16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz', 'b0ab119f45d3e6255eabb978 service Cloudant V1 (authenticator-authenticator)

service.set\_service\_url('https://apikey-v216u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:bab119

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()