Team ID	PNT2022TMID46252
Project Name	IOT Based smart crop protection system for Agriculture

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 CouchDbSessionAuthenticatorfrom
ibm_cloud_ sdk_core.authenticators import
BasicAuthenticator
authenticator= BasicAuthenticator ('apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz', 'b0ab119f45d3e6255eabb978 serviceCloudant
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()
```