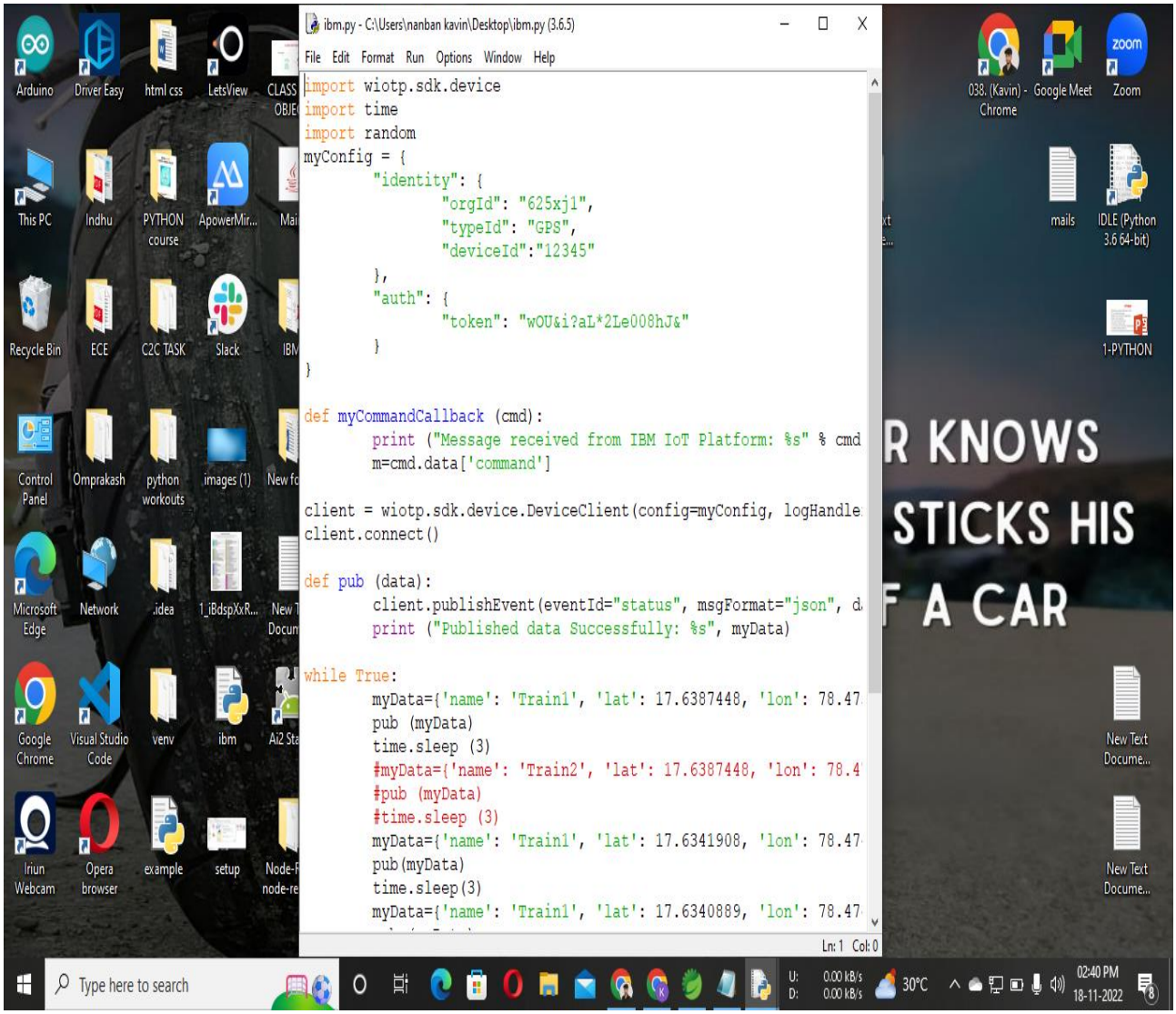
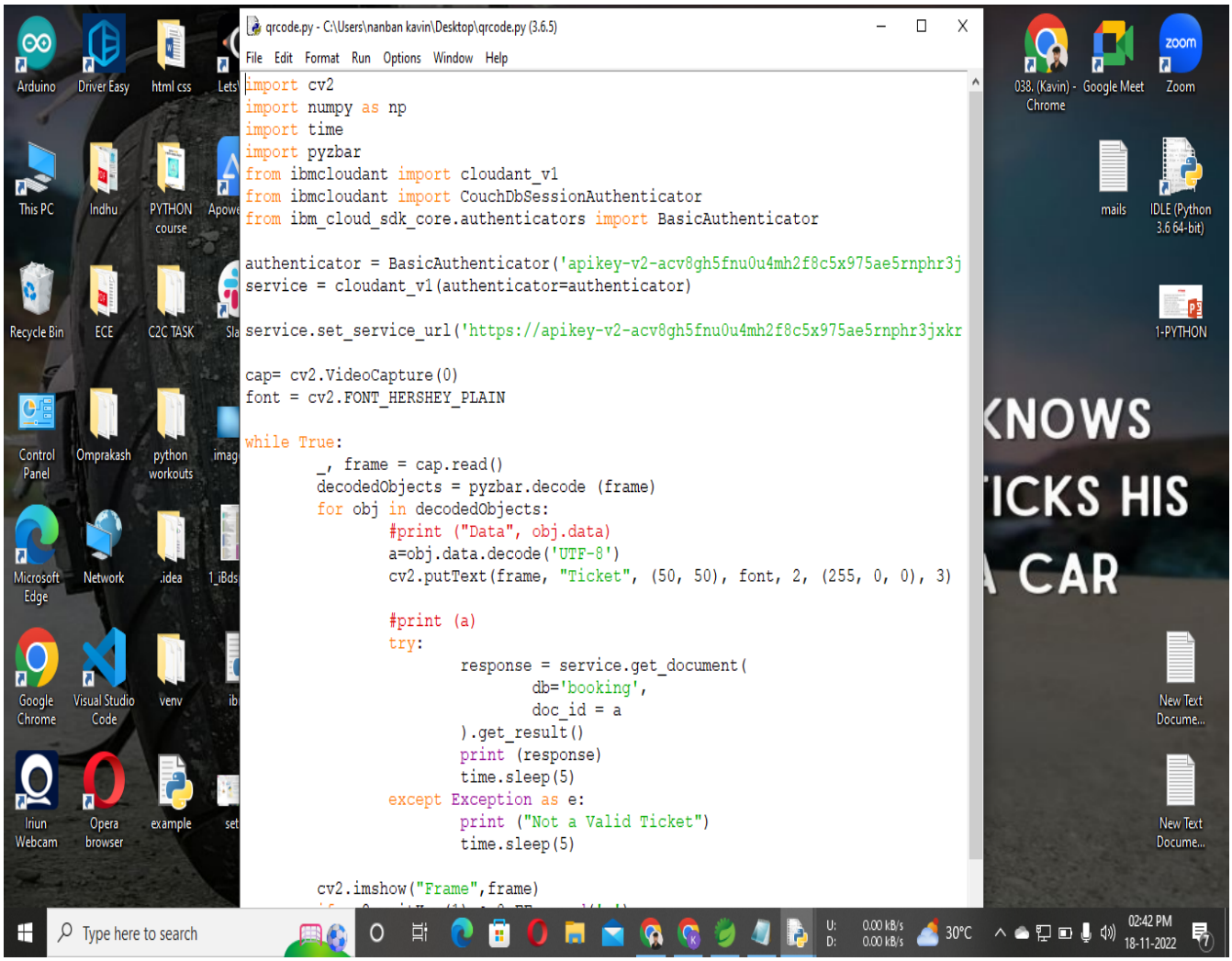
DEVELOPED PYTHON SCRIPT

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID13493
Title	SMART SOLUTION FOR RAILWAYS




qrcode.py - C:\Users\nanban kavin\Desktop\qrcode.py (3.6.5)
File Edit Format Run Options Window Help
import cv2
import numpy as np
import time
import pyzbar
from ibmcloudant import cloudant_v1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator
authenticator = BasicAuthenticator('apikey-v2-acv8gh5fnu0u4mh2f8c5x975ae5rnphr3j
service = cloudant_v1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-acv8gh5fnu0u4mh2f8c5x975ae5rnphr3jxkr
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)
Arduino
Driver Easy
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038. (Kavin) - Chrome
Google Meet
Zoom
This PC
Indhu
PYTHON course
mails
IDLE (Python 3.6 64-bit)
Recycle Bin
ECE
C2C TASK
1-PYTHON
Control Panel
Omprakash
python workouts
Microsoft Edge
Network
.idea
Google Chrome
Visual Studio Code
venv
New Text Docume...
Iriun Webcam
Opera browser
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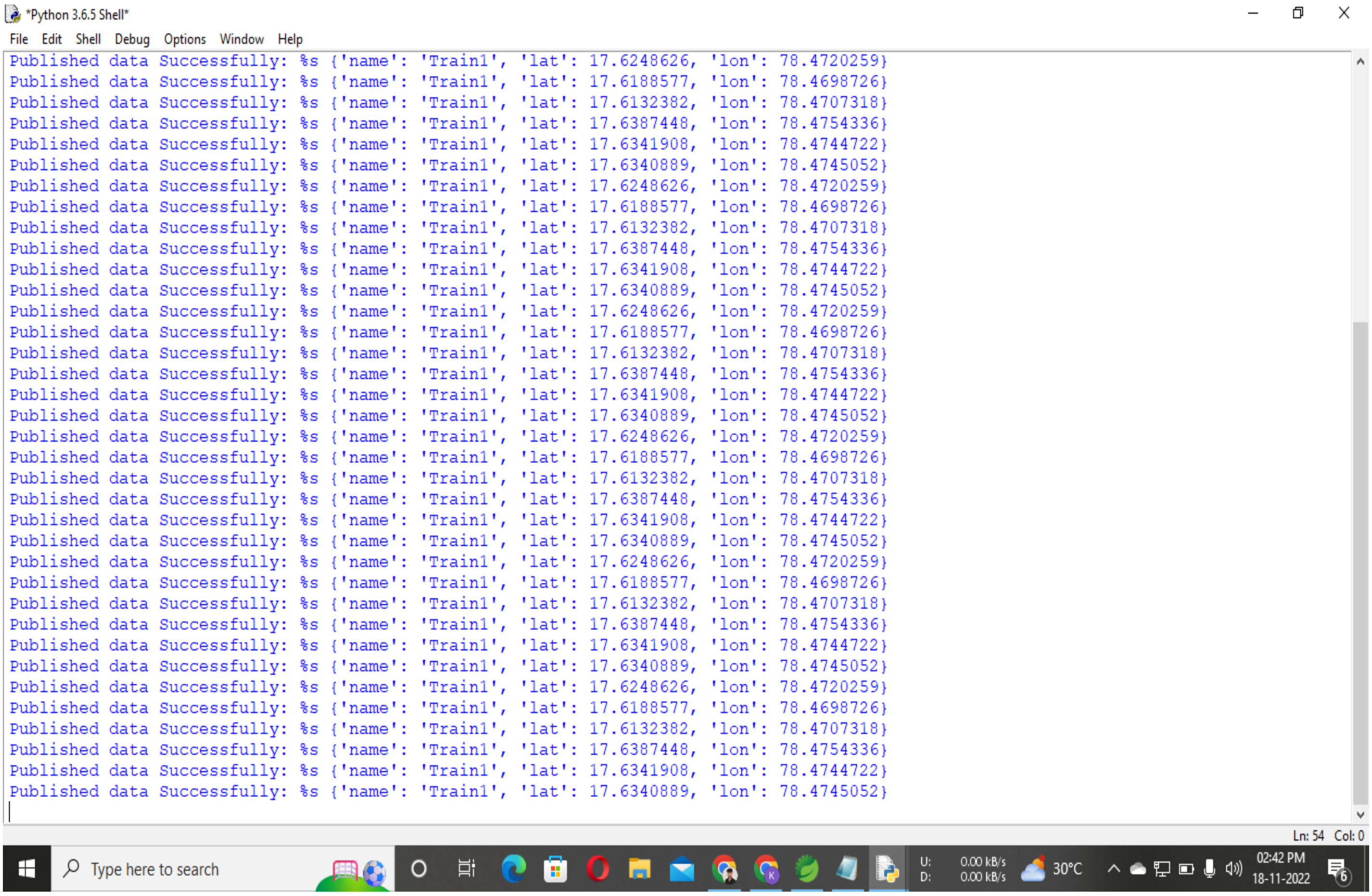

IBM:

```
import wiotp.sdk.device

import time
import random
myConfig = {
"identity": {
"orgId": "625xj1",
"typeId": "GPS",
"deviceId":"12345"
},
"auth": {
"token": "wOU&i?aL*2Le008hJ&"
}
}

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,
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': '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 = myCommandCallback
client.disconnect ()
```

QR CODE:-

```
import cv2
import numpy as np
import time
import pyzbar
from ibmcloudant import cloudant_v1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-
acv8gh5fnu0u4mh2f8c5x975ae5rnphr3jxkr5d9ril','c1dd4db6e976d915751882f688e410ec')
service = cloudant_v1(authenticator=authenticator)
```

```
service.set_service_url('https://apikey-v2-
acv8gh5fnu0u4mh2f8c5x975ae5rnphr3jxkr5d9ril:c1dd4db6e976d915751882f688e410ec@a
dad2af9-59c4-41bb-b4b4-806f0d6962b2-bluemix.cloudantnosqldb.appdomain.cloud')

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)
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#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()
```