SPRINT – 4

PROCEDURE:

Step 1: Develop a PYTHON script to scan the QR code.

Step 2: Connect the python code to IBM Cloudant using the credentials.

Step 3: Run the program.

PYTHON CODE FOR GPS:

```
import cv2
import numpy as np
import time
import pyzbar.pyzbar as pyzbar

from pyzbar.pyzbar import decode
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator ('apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2
             ysgc72h53lzi', 'af693938842290ecc254461754447b5')

service = CloudantV1 (authenticator = authenticator)

service.set_service_url ('https: //apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysg
c72hl53zi:af693938842290ec2c254461754447b45@82d87499-4395-4f46-a190-6
a186bee5051 – bluemix.cloudantnosqldb.appdomain.cloud')

cap = cv2.VideoCapture(0)
```
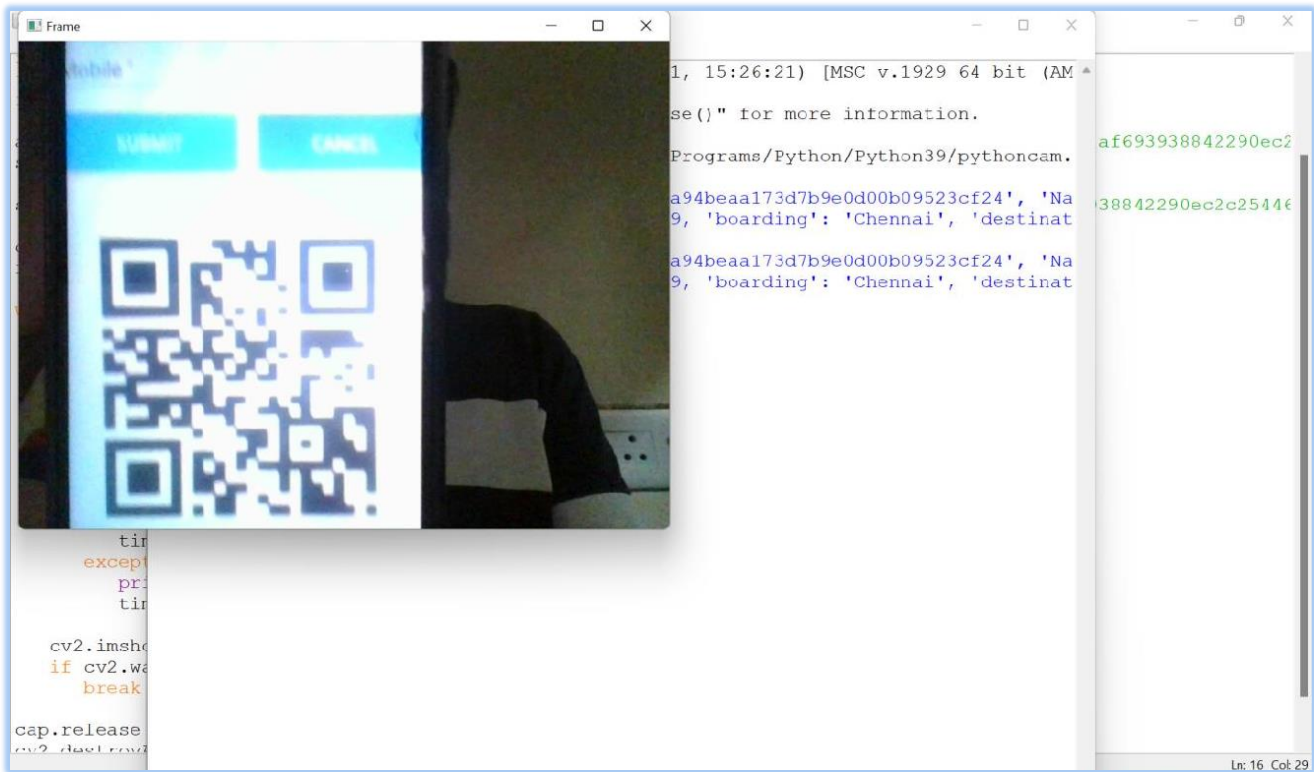
```python
while True:
        _, frame = cap.read()
        decodedObjects = pyzbar.decode(frame)

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()
```

PYTHON CODE OUTPUT:

Topic:

Smart Solution for Railways

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