PYTHON Lab Exersise 3

CODE:

```
# smartscan_registration_module.py
from PIL import Image
# In-Memory Storage: Simulate a database using a list of dictionaries
user database = []
# Lambda functions for creating, inserting, and fetching user records
create user record = lambda name, email, destination, travel date: {
  "name": name,
  "email": email.
  "destination": destination,
  "travel date": travel date
insert_user_record = lambda record: user_database.append(record)
fetch all users = lambda: user database
# Function to simulate scanning and decoding SmartScan Code
def scan smartscan code(image path):
  dummy_data = "Tushar Mahajan,tushar.mahajan@mca.christuniversity.in,Goa,2024-08-15"
  return dummy data
# Function to register user from SmartScan
def RegisterUserFromSmartScan(image_path):
  user_data = scan_smartscan_code(image_path)
  if user data:
     name, email, destination, travel_date = user_data.split(',')
     user_record = create_user_record(name, email, destination, travel_date)
     insert_user_record(user_record)
     print("User registered successfully!")
     print("Failed to scan the SmartScan Code.")
  print("All registered users:")
  for user in fetch_all_users():
     print(user)
# Function to display the dummy image
def display_image(image_path):
  img = Image.open(image_path)
  img.show()
if __name__ == "__main__":
 print("This is a module and should be imported to use the functions.")
```

```
# main.py
from smart_scan_registration_module import RegisterUserFromSmartScan, display_image

# Path to the dummy SmartScan Code image
image_path = 'qr.jpeg' # Replace with your actual image path if needed

# Display the dummy image
display_image(image_path)

# Register user from SmartScan Code
RegisterUserFromSmartScan(image_path)
```

OUTPUT:

