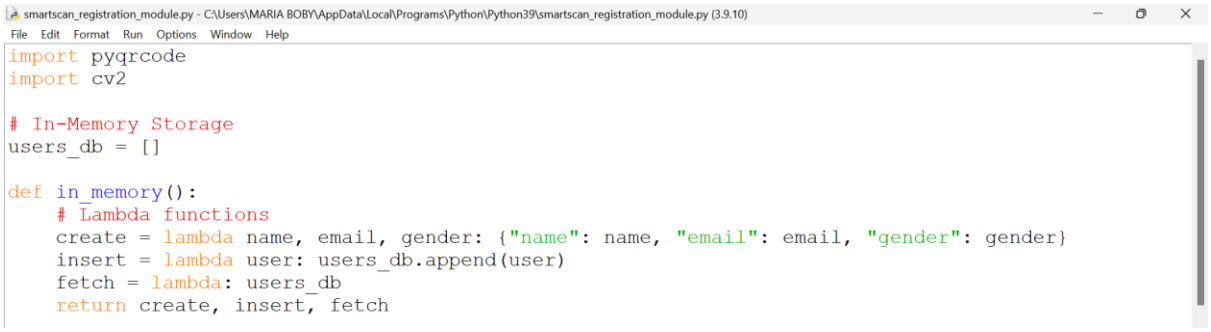
SMARTSCAN CODES

Smartscan codes contain a module named **smartscan_registration_module.py** in python which has functions for creating a database, inserting data and then fetching data using lambda functions and also functions for reading and writing QR codes. This module also has functions to decode the data in QR code to insert it to the database. This module is imported to a main.py named **Lab3McaMain.py** to run the Smartcard Codes system. The module is created with help of two inbuilt modules, pyqrcode and cv2 which helped in coding and decoding of QR code.

The **smartscan_registration_module.py** is shown below:

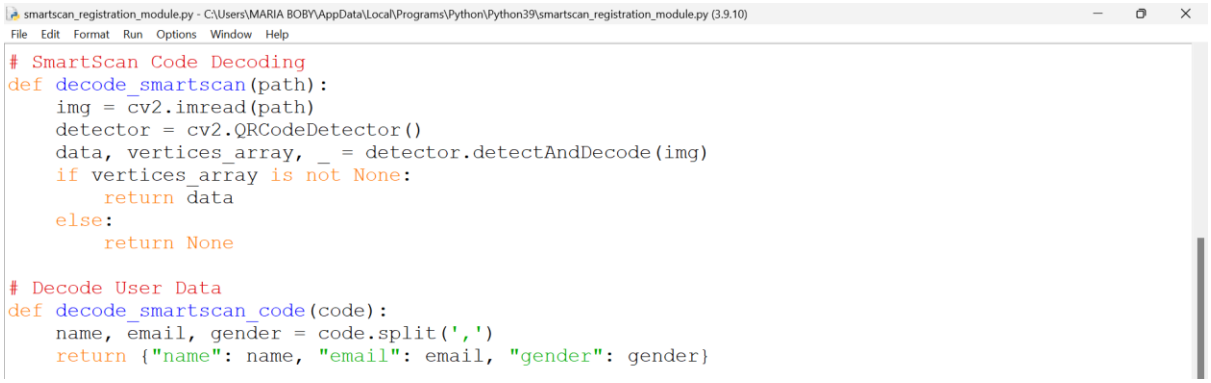
in_memory() is the function used to create the database, to insert data and to fetch data using lambda. The data contains name, email and gender of the employee.



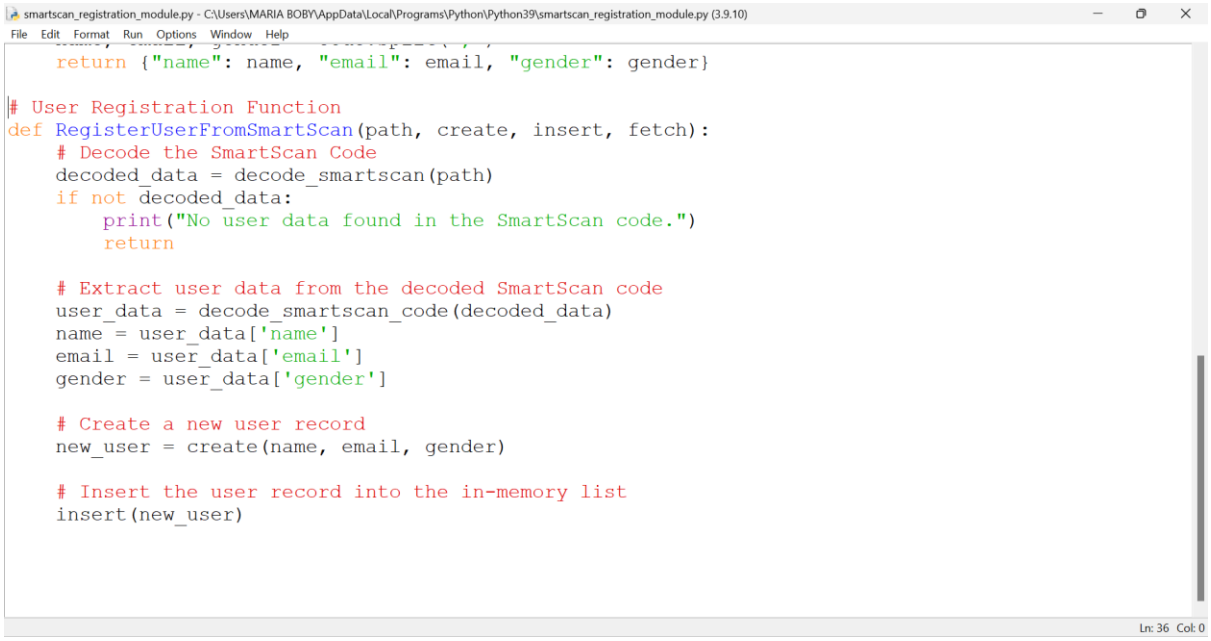
generate_smartscan(name,email,gender,filename) is the function used to generate the QR code with the data name, email and gender from the employee with the file name with the help of inbuilt module pyqrcode.

decode_smartscan(path) is the function to decode the QR code with the help of cv2 inbuilt module. The path parameter is the filename of QR code.

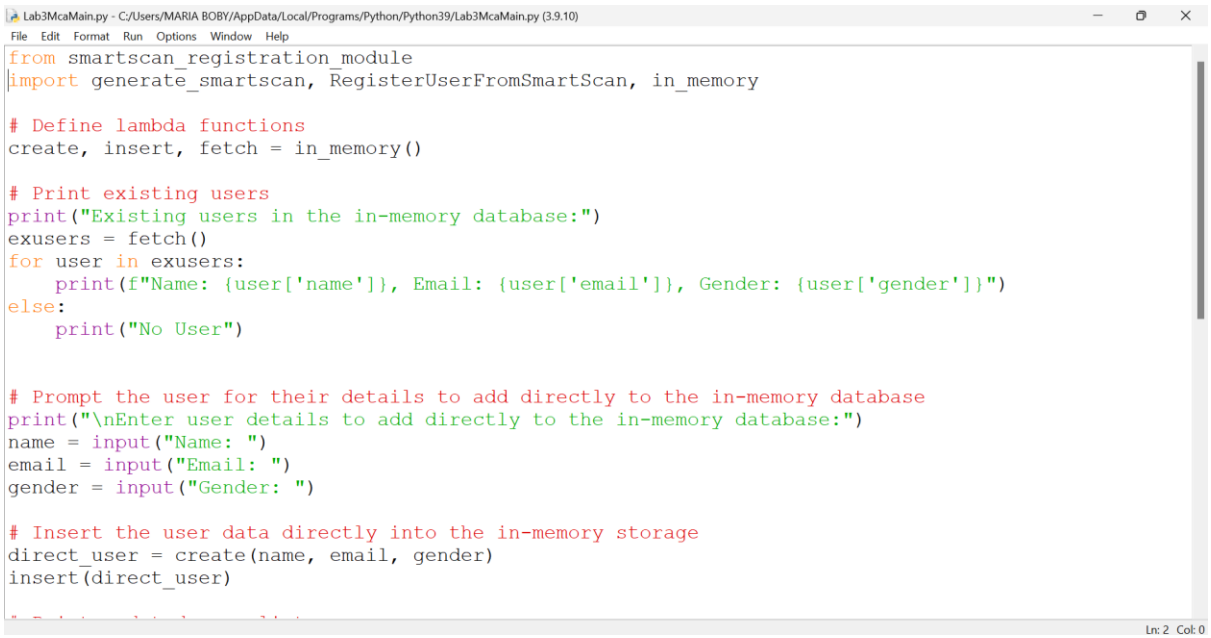
decode_smartscan_code(code) decodes the data to readable format.

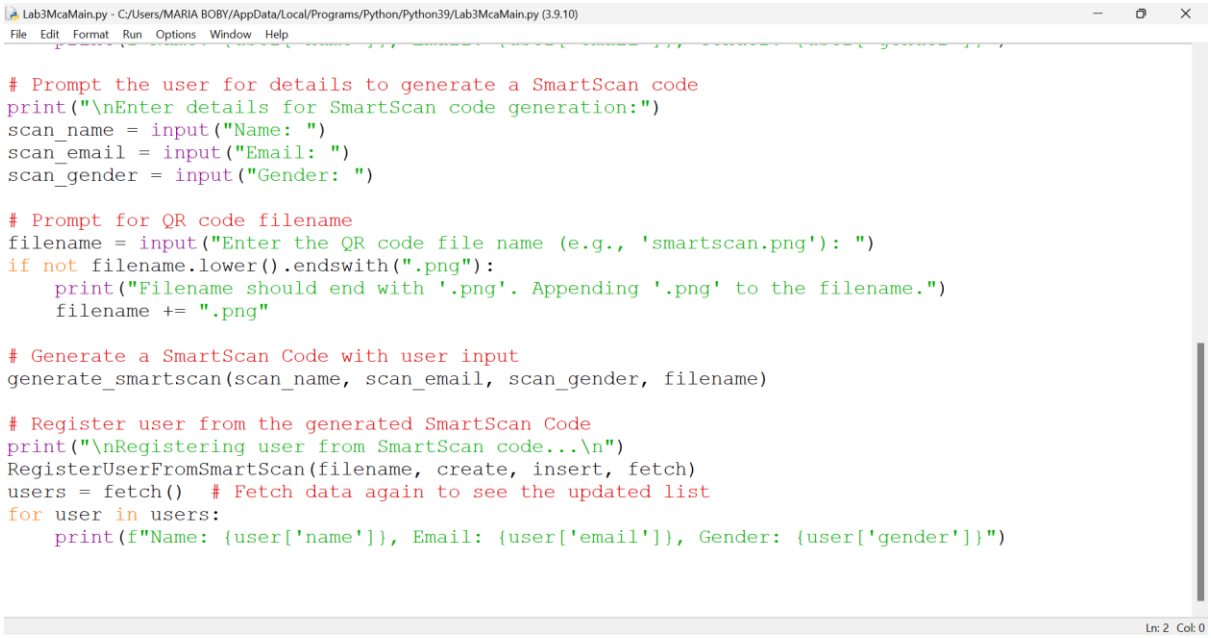


RegisterUserFromSmartScan (path, create, insert, fetch) is the used to decode the data from QR code and insert it to the database.

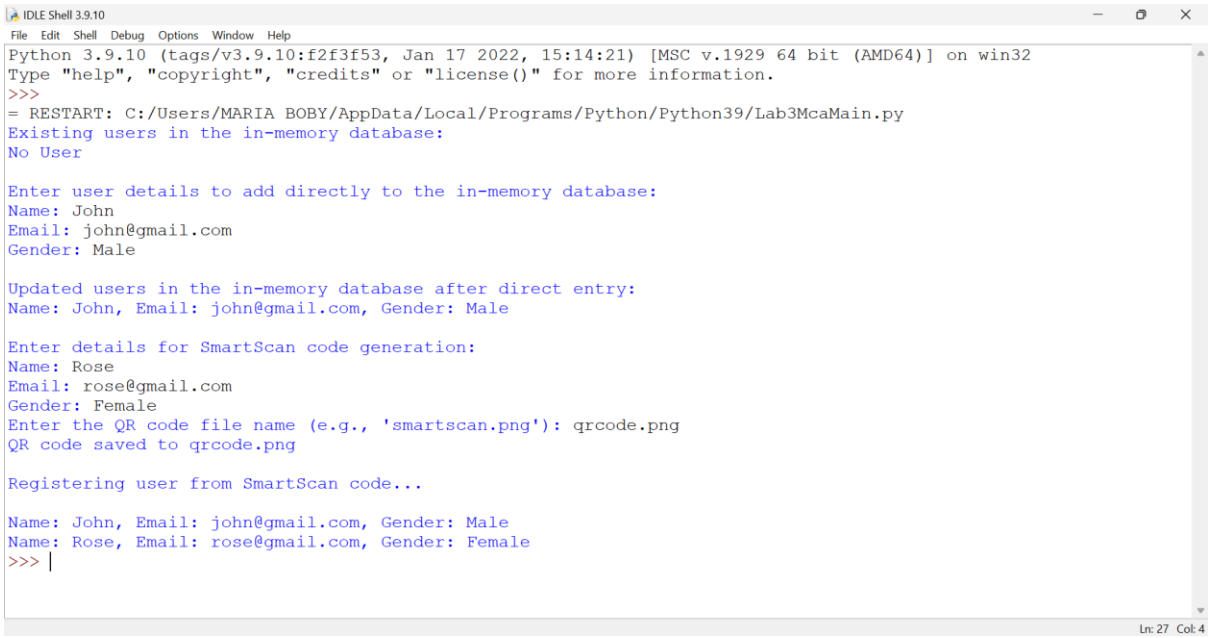


Lab3McaMain.py, the main function of the Smartscan code display the data already existing in the database, inserts new data from user, creates a QR coder with details from user and also with the file name preferred by the user. Finally, the data existing in the database is displayed.





The **input/output** of the above programs are shown below:



Qrcode.png

SUBMITTED BY

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