



# INDIVIDUAL ASSIGNMENT

## TECHNOLOGY PARK MALAYSIA

### CT108-3-1-PYP

### PYTHON PROGRAMMING

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MODULE CODE AND TITLE: CT108-3-1-PYP Python Programming

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## **Introduction**

Online Pharmacy Management System (OPMS) is designed to provide an online platform for the customers to purchase over-the-counter medications. People's movements are restricted mainly due to the restriction caused by the lockdown of Malaysia due to the pandemic Covid-19. Hence, OCEAN Sdn Bhd, which is a local leading company created a system for customers to access its functionalities well.

### **Assumptions**

It is assumed that online system will only function based on command line interfaces. The online system will only be able to provide basic necessary functions to the customers, for instance register an account, place orders, and make payments. System admin will only be able to use functions which includes but not limited to upload medicine details, modify medicine details, search medicine details and view customers' orders. Python programming language is used to develop the online system.

**Pseudocode**

DEFINE FUNCTION registered\_customer\_login\_checker()

    DISPLAY "Username: "

    DISPLAY "Password: "

    GET registered\_customer\_login\_details\_username

    GET registered\_customer\_login\_details\_password

    TRY

        OPEN a customer file using registered\_customer\_login\_details\_username in the file name and

    READ it

        OUTPUT("Login successful!")

    EXCEPT FileNotFoundError

        OUTPUT("User not found")

    EXIT FUNCTION

CLOSE file

#####  
#####

DEFINE FUNCTION input\_Admin\_number1()

    OPEN medicine.txt to append

    OUTPUT("""Upload medicine detail in system in such format:

        Medicine name, Expiration date(dd/mm/yy), Price(RM), Quantity (per pack/per bottle),

    Package forms (Blister packs/Prescription bottle)

        For example:

        Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs

    """)

    DISPLAY "\nEnter details: "

    GET medicine\_enter\_details

    WRITE medicine\_enter\_details TO medicine.txt

CLOSE medicine.txt

OUTPUT("Medicine details uploaded in system")

#####

DEFINE FUNCTION input\_Admin\_number2()

OPEN medicine.txt to read

OUTPUT("All uploaded medicines:")

OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms  
-----""")

READ medicine.txt

FOR line IN medicine.txt

OUTPUT(line)

END FOR

CLOSE file

#####

DEFINE FUNCTION input\_Admin\_number3()

OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms  
-----""")

OPEN medicine.txt file

READ medicine.txt file

OUTPUT contents of medicine.txt file

READ medicine.txt file as a list

CLOSE medicine.txt file

DISPLAY "Enter the medicine line number that will be modified <starting at 1>: "

GET medicine\_modify\_line

CALCULATE medicine\_modify\_line\_number = medicine\_modify\_line - 1

OUTPUT("""Update/modify medicine information in system in such format:

Medicine name, Expiration date(dd/mm/yy), Price(RM), Quantity, Package forms

For example:

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs

""")

DISPLAY ("Enter new details: ")

GET medicine\_modify\_details

REPLACE medicine\_modify\_details into list

OPEN file to write

WRITE new\_medicine\_modify\_details into file

CLOSE file

#####

DEFINE FUNCTION input\_Admin\_number4()

OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms

-----""")

OPEN medicine.txt file to read

READ medicine.txt file

OUTPUT contents of medicine.txt file

READ medicine.txt file as a list

CLOSE medicine.txt file

DISPLAY "Enter the medicine line number that will be deleted <starting at 1>: "

GET medicine\_modify\_line

CALCULATE medicine\_modify\_line\_number = medicine\_modify\_line - 1

REMOVE the medicine line number in file

OPEN file to write

WRITE new\_medicine\_modify\_details into file

CLOSE file

#####

DEFINE FUNCTION input\_Admin\_number5()

DISPLAY "Type what medicine details you want to search: "

GET admin\_search\_medicine

OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms

-----""")

OPEN medicine.txt to read

READ medicine.txt file

FOR line IN medicine.txt

IF admin\_search\_medicine.lower() IN line.lower() THEN

OUTPUT(line)

ELSE

continue

END IF

END FOR

CLOSE file

#####

DEFINE FUNCTION input\_Admin\_number6()

OUTPUT("Below is the information of order(s):")

OUTPUT("""Medicine name      Quantity (packs/bottles)

-----""")

OPEN order.txt file to read

READ order.txt file

DISPLAY order.txt file

CLOSE file

#####

DEFINE FUNCTION input\_Admin\_number7():

DISPLAY "Customer Username: "

GET registered\_customer\_login\_details\_username\_in\_admin

OPEN a customer file using registered\_customer\_login\_details\_username\_in\_admin in the file name



READ the customer file using registered\_customer\_login\_details\_username\_in\_admin in the file name

OUTPUT("Below is the information of order(s):")

OUTPUT("""Medicine name        Quantity (packs/bottles)

----- """)

OUTPUT medicine order content of a specific customer

CLOSE file

#####

DEFINE FUNCTION input\_Admin\_number8()

DISPLAY "Are you sure you want to exit? ('y' for Yes, any other key for No): "

GET admin\_exit

IF admin\_exit = "y" THEN

    EXIT FUNCTION

END IF

#####

#####

#####

DEFINE FUNCTION input\_new\_customer\_number1()

OPEN medicine.txt to read

OUTPUT("All uploaded medicines:")

OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms

----- """)

READ medicine.txt

FOR line IN medicine.txt

    OUTPUT(line)

END FOR

CLOSE file

#####

DEFINE FUNCTION input\_new\_customer\_number2()

DISPLAY "Name: "

DISPLAY "Address: "

DISPLAY "Email ID: "

DISPLAY "Contact Number: "

DISPLAY "Gender (Male/Female/Others): "

DISPLAY "Date Of Birth (dd/mm/yy): "

DISPLAY "User ID: "

DISPLAY "Enter Password: "

GET customer\_enter\_details\_name

GET customer\_enter\_details\_address

GET customer\_enter\_details\_email\_id

GET customer\_enter\_details\_contact\_number

GET customer\_enter\_details\_gender

GET customer\_enter\_details\_date\_of\_birth

GET customer\_enter\_details\_user\_id

GET customer\_enter\_details\_password

WRITE customer\_enter\_details\_name to file

WRITE customer\_enter\_details\_address to file

WRITE customer\_enter\_details\_email\_id to file

WRITE customer\_enter\_details\_contact\_number to file

WRITE customer\_enter\_details\_gender to file

WRITE customer\_enter\_details\_date\_of\_birth to file

WRITE customer\_enter\_details\_user\_id to file

WRITE customer\_enter\_details\_password to file

DOWHILE True

```
DISPLAY "Confirm Password: "
```

```
    GET customer_enter_details_confirm_password
```

```
IF customer_enter_details_confirm_password == customer_enter_details_password THEN
```

```
    break WHILE loop
```

```
ELSE
```

```
    OUTPUT("Please confirm your password")
```

```
END IF
```

```
END DOWHILE
```

```
OPEN file using customer_enter_details_user_id as its file name
```

```
WRITE customer personal information in file
```

```
CLOSE file
```

```
OUTPUT ("You have successfully created an account!")
```

```
#####
```

```
DEFINE FUNCTION input_new_customer_number3()
```

```
    DISPLAY "Are you sure you want to exit? ('y' for Yes, any other key for No): "
```

```
    GET new_customer_exit
```

```
IF new_customer_exit = "y" THEN
```

```
    EXIT FUNCTION
```

```
END IF
```

```
#####
```

```
#####
```

```
#####
```

```
DEFINE FUNCTION input_registered_customer_number1()
```

```
    OPEN medicine.txt to read
```

```
OUTPUT("All uploaded medicines:")
```

```
OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
-----""")
```

```
READ medicine.txt
```

```
FOR line IN medicine.txt
```

```
    OUTPUT(line)
```

```
END FOR
```

```
CLOSE file
```

```
#####
```

```
DEFINE FUNCTION input_registered_customer_number2()
```

```
    DISPLAY "Please enter your username again for security purposes: "
```

```
    GET reconfirm_username_place_orders
```

```
    OPEN medicine.txt to read
```

```
    OUTPUT("Below is the information of the medicines:")
```

```
    OUTPUT("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
-----""")
```

```
    READ medicine information in medicine.txt
```

```
    DISPLAY medicine information in medicine.txt
```

```
    CLOSE file
```

```
    DISPLAY "Enter medicine name: "
```

```
    DISPLAY "Enter quantity (packs/bottles): "
```

```
    GET registered_customer_order_medicine_medicine_name
```

```
    GET registered_customer_order_medicine_quantity
```

```
    OUTPUT("Proceed to payment?")
```

```
    DISPLAY "Enter credit/debit card details: "
```

```
    GET credit/debit card details
```

```
    DISPLAY "Confirm payment? ('y' for Yes, any other key for No)"
```

GET registered\_customer\_payment

IF registered\_customer\_payment = "y" THEN

    OUTPUT("Order and payment successful")

        OPEN customer order file

        APPEND medicine order of the customer in customer order file

        CLOSE file

        OPEN admin order file

        APPEND medicine order of the customer in admin order file

        CLOSE file

ELSE

    OUTPUT("Payment failed")

END IF

#####

DEFINE FUNCTION input\_registered\_customer\_number3()

    DISPLAY "Please enter your username again for security purposes: "

    GET reconfirm\_username\_show\_personal\_orders

    TRY:

        OPEN a customer medicine order file with reconfirm\_username\_show\_personal\_orders in its file name

        READ a customer medicine order file with reconfirm\_username\_show\_personal\_orders in its file name

        OUTPUT("Below is the information of your order:")

        OUTPUT("""Medicine name       Quantity (packs/bottles)

----- """)

        OUTPUT contents of the file

        CLOSE file

    EXCEPT FileNotFoundError

        OUTPUT("Currently no orders.")

```
#####
```

```
DEFINE FUNCTION input_registered_customer_number4()
```

```
    DISPLAY "Please enter your username again for security purposes: "
```

```
    GET reconfirm_username_show_personal_details
```

```
    OPEN a customer personal information file with reconfirm_username_show_personal_details in its
file name
```

```
    READ a customer personal information file with reconfirm_username_show_personal_details in its
file name
```

```
    OUTPUT("""Name                Address                Email ID
Contact Number      Gender          Date Of Birth      Username      Password
-----
-----""")
```

```
    OUTPUT contents of the file
```

```
    CLOSE file
```

```
#####
```

```
DEFINE FUNCTION input_registered_customer_number5()
```

```
    DISPLAY "Are you sure you want to exit? ('y' for Yes, any other key for No): "
```

```
    GET registered_customer_exit
```

```
    IF registered_customer_exit = "y" THEN
```

```
        EXIT FUNCTION
```

```
    END IF
```

```
#####
```

```
DEFINE FUNCTION admin_login()
```

```
    DOWHILE True
```

```
        DISPLAY "Username: "
```

```
DISPLAY "Password: "
```

```
    GET Admin_login_details_username
```

```
    GET Admin_login_details_password
```

```
    IF Admin_login_details_username == "admin" AND Admin_login_details_password == "admin"
THEN
```

```
    break WHILE loop
```

```
ELSE
```

```
    OUTPUT("Please try again")
```

```
END IF
```

```
END DOWHILE
```

```
DOWHILE True
```

```
    OUTPUT("Do you want to:
```

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

```
    ")
```

```
DISPLAY "Please enter the chosen number: "
```

```
    GET input_Admin_number
```

```
IF input_Admin_number <= 0 OR input_Admin_number >= 9 THEN
```

```
    OUTPUT('Invalid input')
```

```
ELSE
```

```
    IF input_Admin_number == 1 THEN
```

```
        CALL input_Admin_number1()
```

```
    IF input_Admin_number == 2 THEN
```

```

    CALL input_Admin_number2()
IF input_Admin_number == 3 THEN
    CALL input_Admin_number3()
IF input_Admin_number == 4 THEN
    CALL input_Admin_number4()
IF input_Admin_number == 5 THEN
    CALL input_Admin_number5()
IF input_Admin_number == 6 THEN
    CALL input_Admin_number6()
IF input_Admin_number == 7 THEN
    CALL input_Admin_number7()
IF input_Admin_number == 8 THEN
    CALL input_Admin_number8()
    END IF
END IF
END DOWHILE

```

```
#####
```

```

DEFINE FUNCTION new_customer_login()

```

```

DOWHILE True

```

```

    OUTPUT("""Do you want to:

```

1. View medicine details
2. Register an account
3. Exit

```

    """)

```

```

DISPLAY "Please enter the chosen number: "

```

```

    GET input_new_customer_number

```

```

IF input_new_customer_number <= 0 OR input_new_customer_number >= 4 THEN

```

```

    OUTPUT('Invalid input')

```



ELSE

IF input\_new\_customer\_number == 1 THEN

CALL input\_new\_customer\_number1()

IF input\_new\_customer\_number == 2 THEN

CALL input\_new\_customer\_number2()

IF input\_new\_customer\_number == 3 THEN

CALL input\_new\_customer\_number3()

END IF

END IF

END DOWHILE

#####

DEFINE FUNCTION registered\_customer\_login()

CALL registered\_customer\_login\_checker()

DOWHILE True

OUTPUT("""Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

""")

DISPLAY "Please enter the chosen number: "

GET input\_registered\_customer\_number

IF input\_registered\_customer\_number <= 0 OR input\_registered\_customer\_number >= 6

THEN

OUTPUT('Invalid input')

ELSE

IF input\_registered\_customer\_number == 1 THEN

```

    CALL input_registered_customer_number1()
    IF input_registered_customer_number == 2 THEN
        CALL input_registered_customer_number2()
    IF input_registered_customer_number == 3 THEN
        CALL input_registered_customer_number3()
    IF input_registered_customer_number == 4 THEN
        CALL input_registered_customer_number4()
    IF input_registered_customer_number == 5 THEN
        CALL input_registered_customer_number5()
    END IF
END IF
END DOWHILE

```

```
#####
```

```

DEFINE FUNCTION menu()
    DOWHILE True
        OUTPUT("""Welcome! Are you a(n):
1. Admin
2. New Customer
3. Registered Customer
""")

        DISPLAY "Please enter the chosen number: "
        GET input_user_number

        IF input_user_number <= 0 OR input_user_number >= 4 THEN
            OUTPUT('Invalid input')

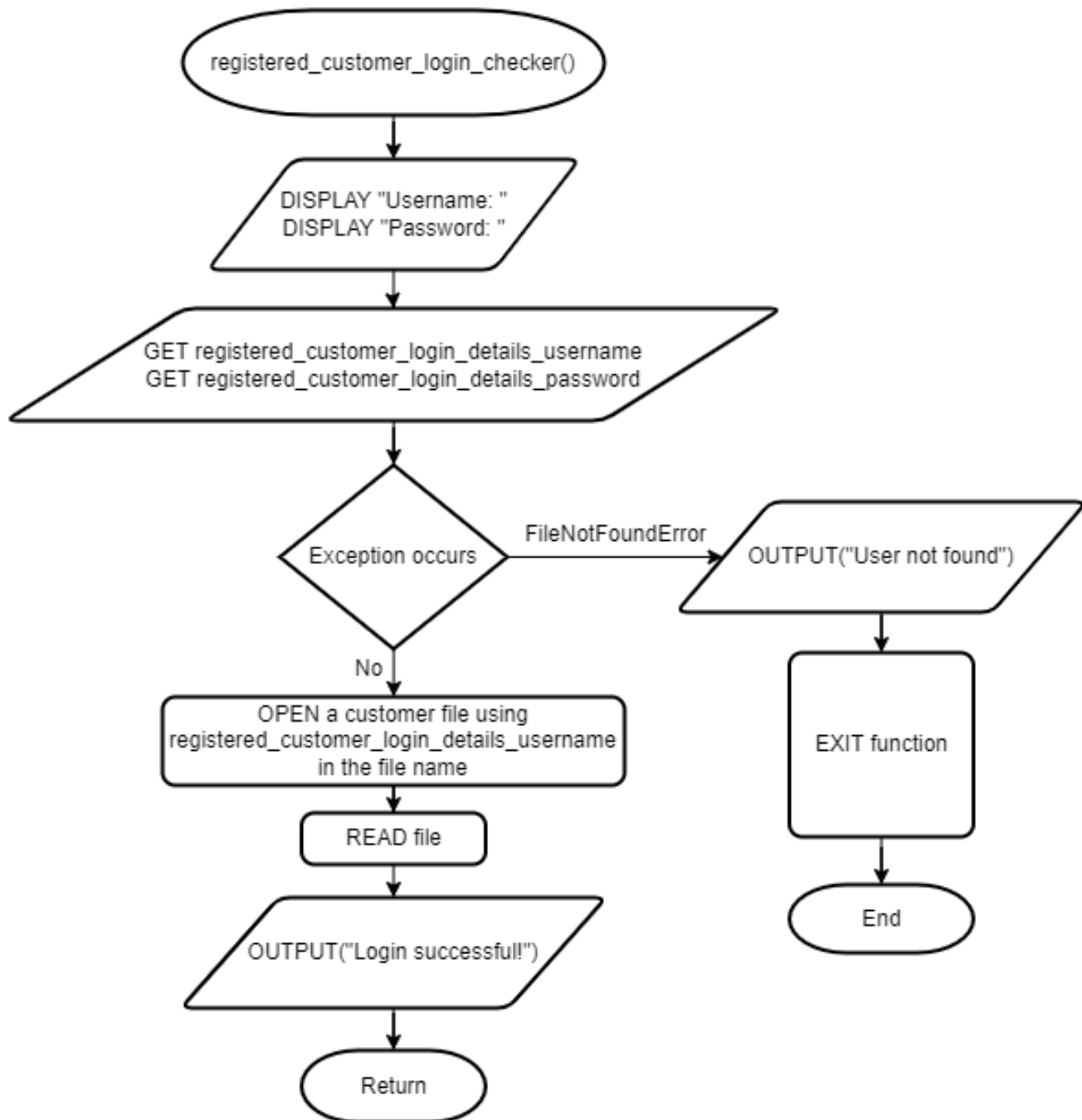
        ELSE
            IF input_user_number == 1 THEN
                CALL admin_login()
            IF input_user_number == 2 THEN

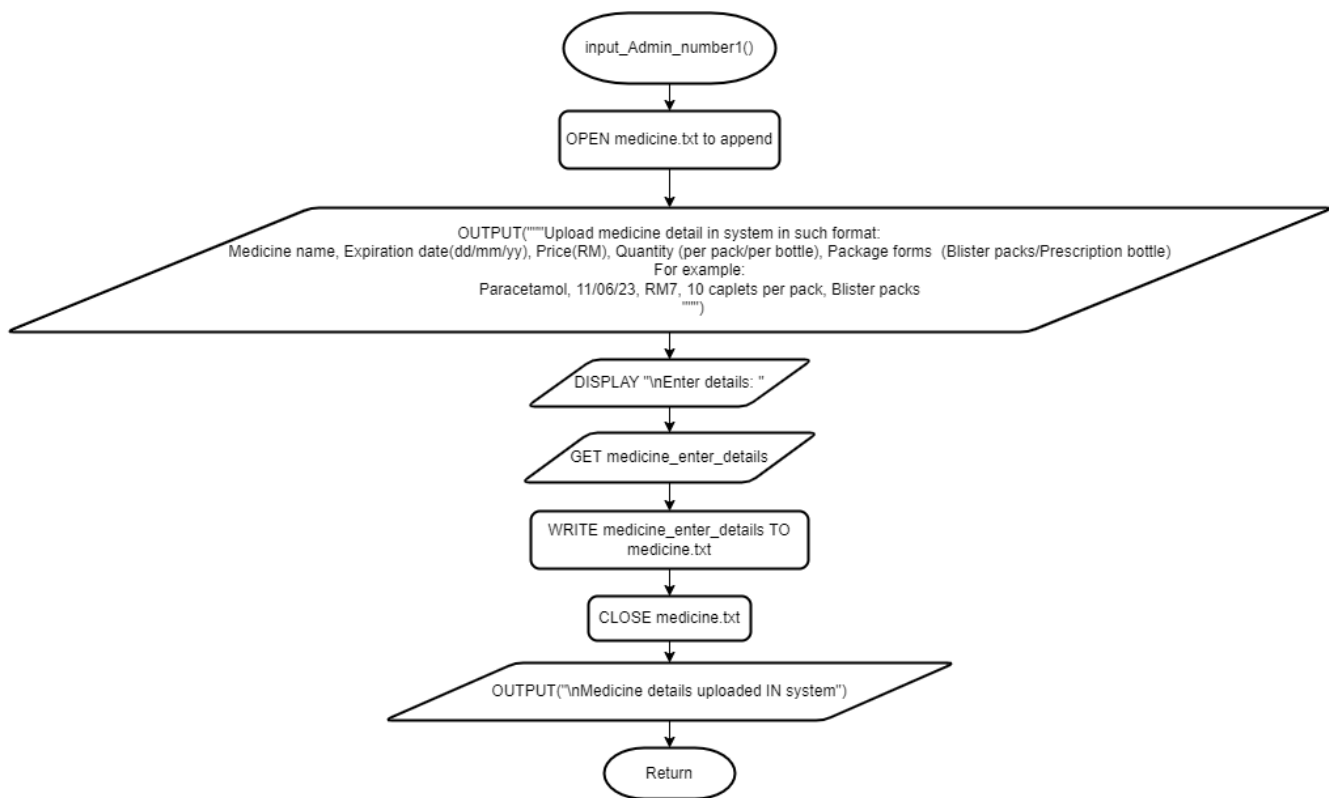
```

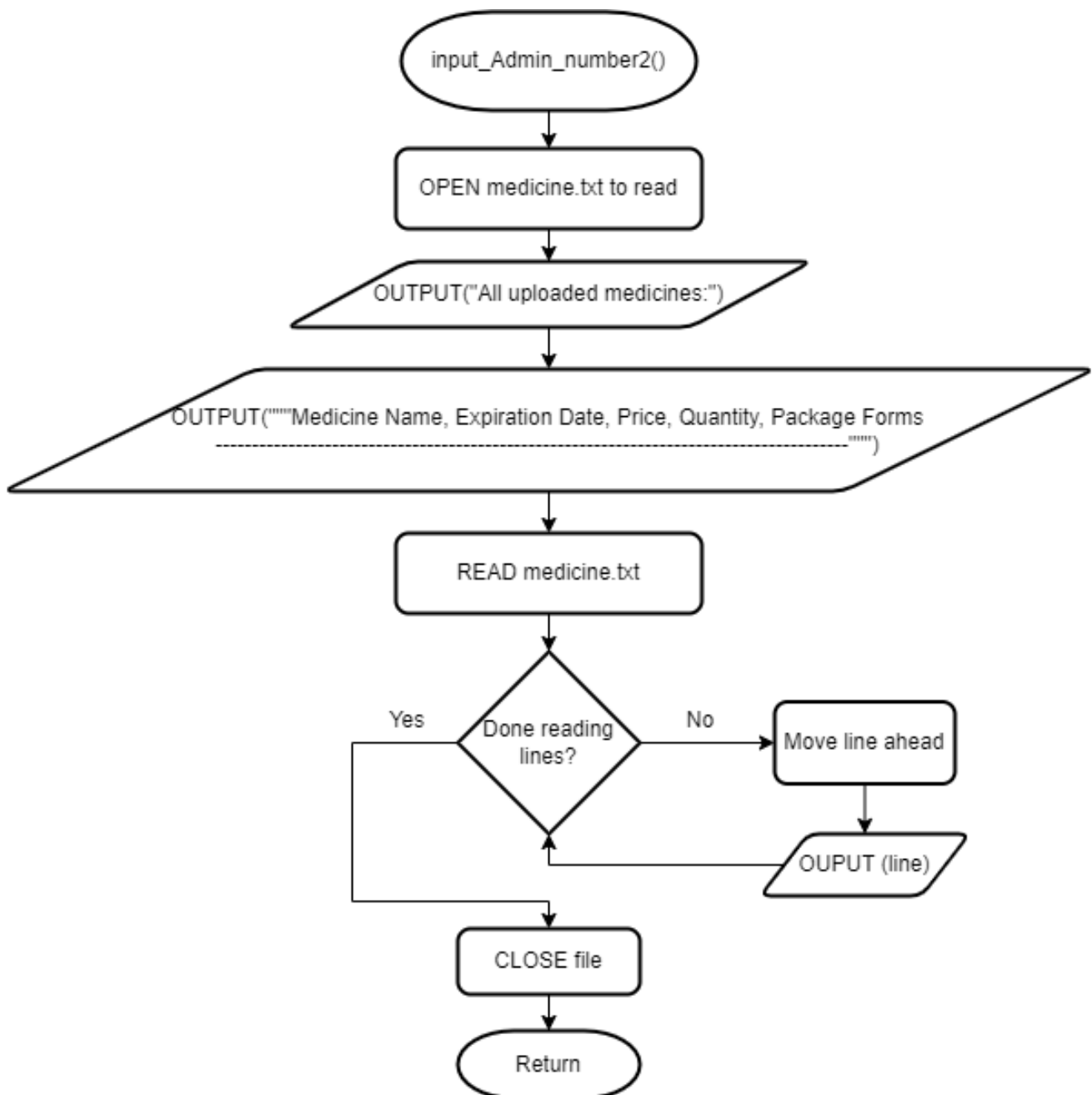
```
        CALL new_customer_login()
    IF input_user_number == 3 THEN
    CALL registered_customer_login()
    END IF
END IF
END DOWHILE
```

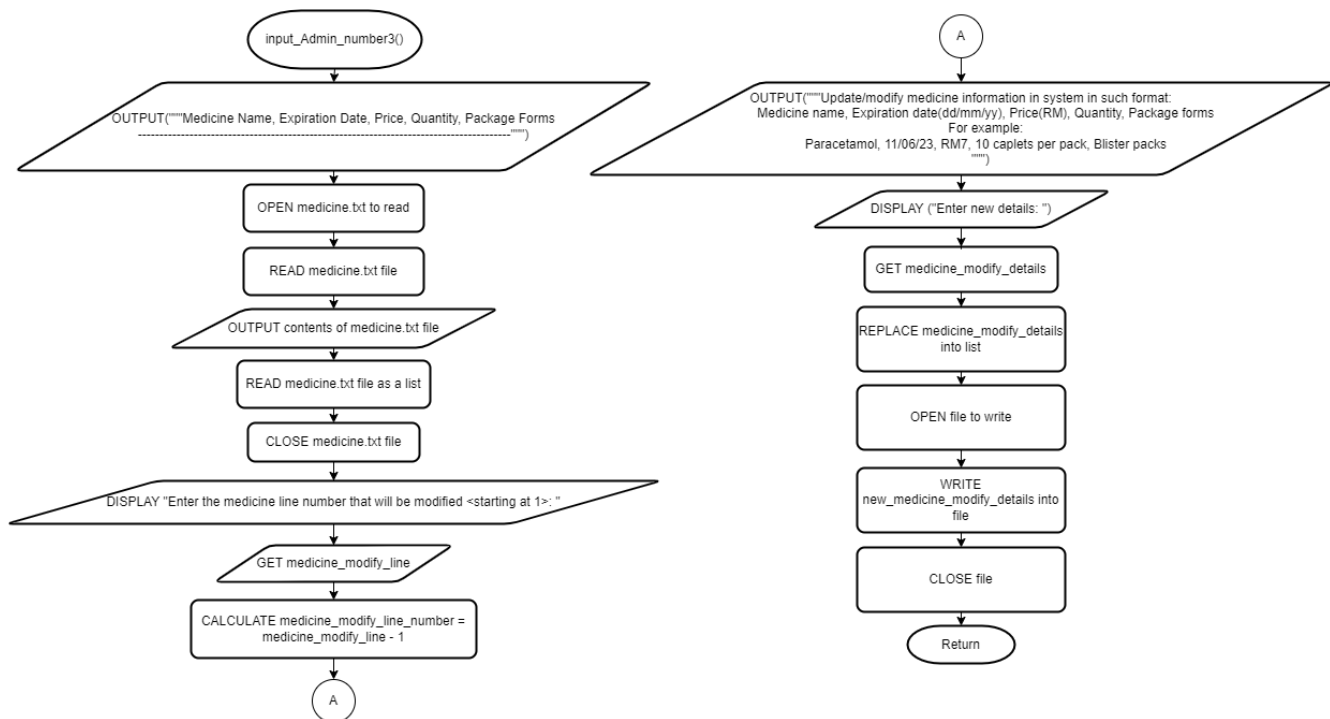
```
#####
```

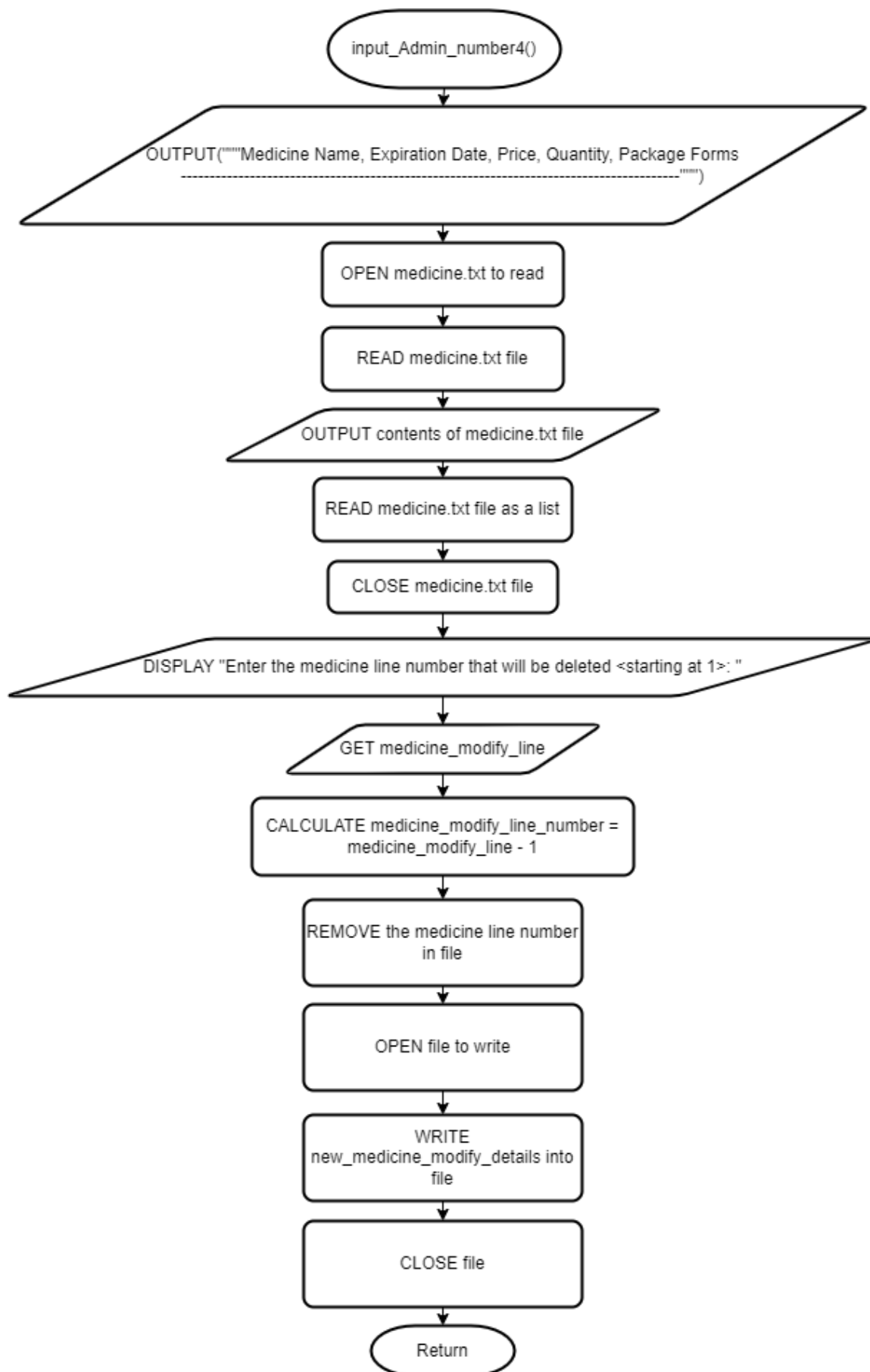
```
Start
CALL menu()
End
```

**Flowchart**



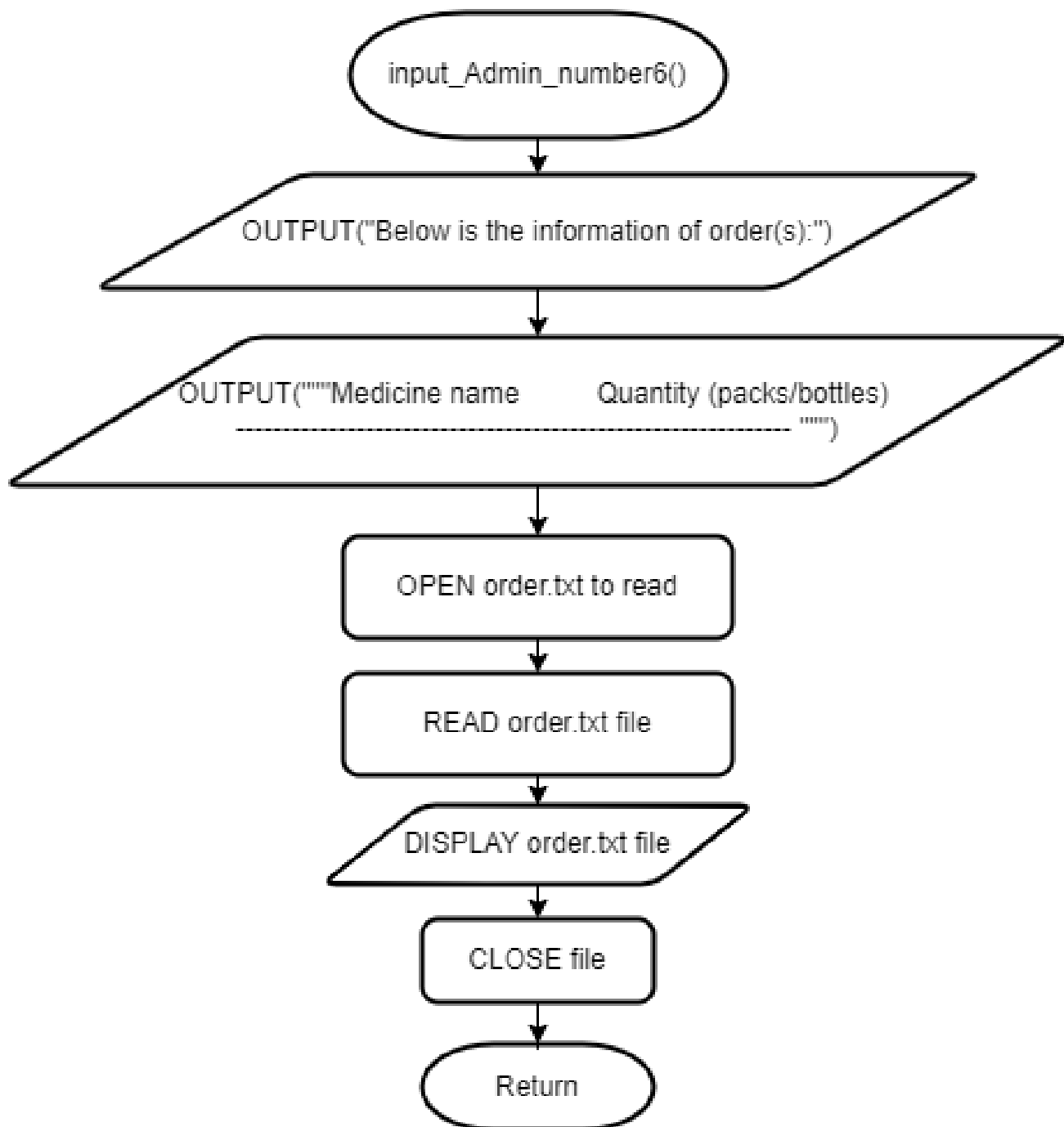


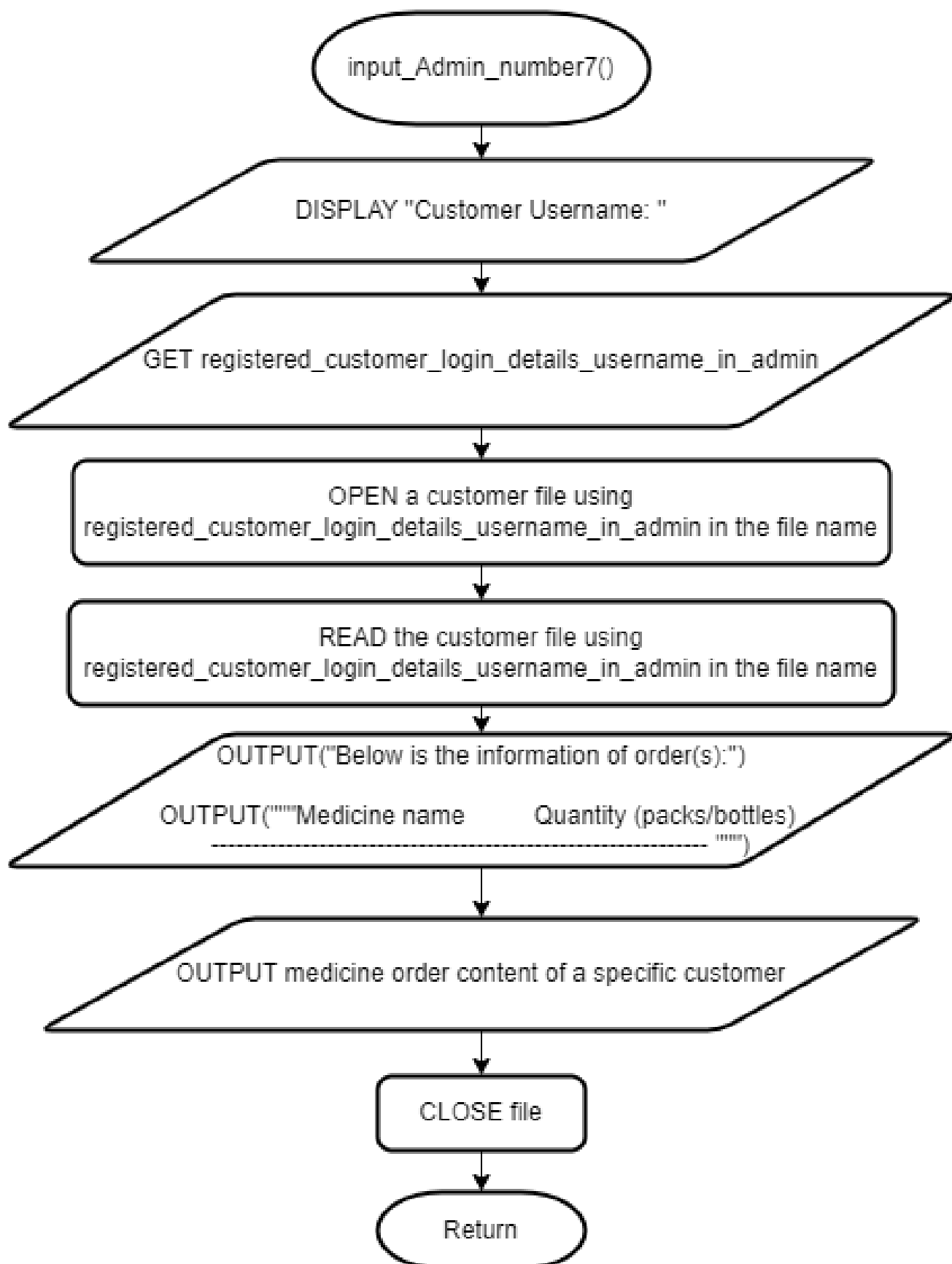


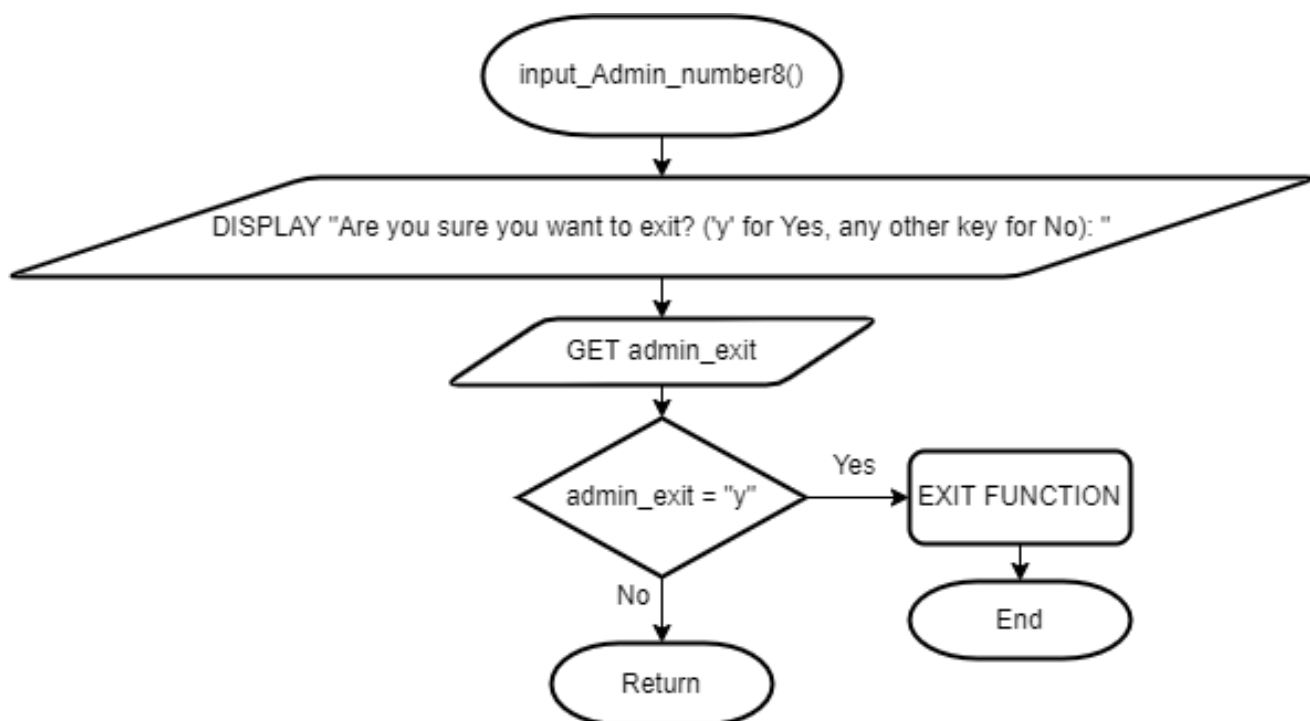




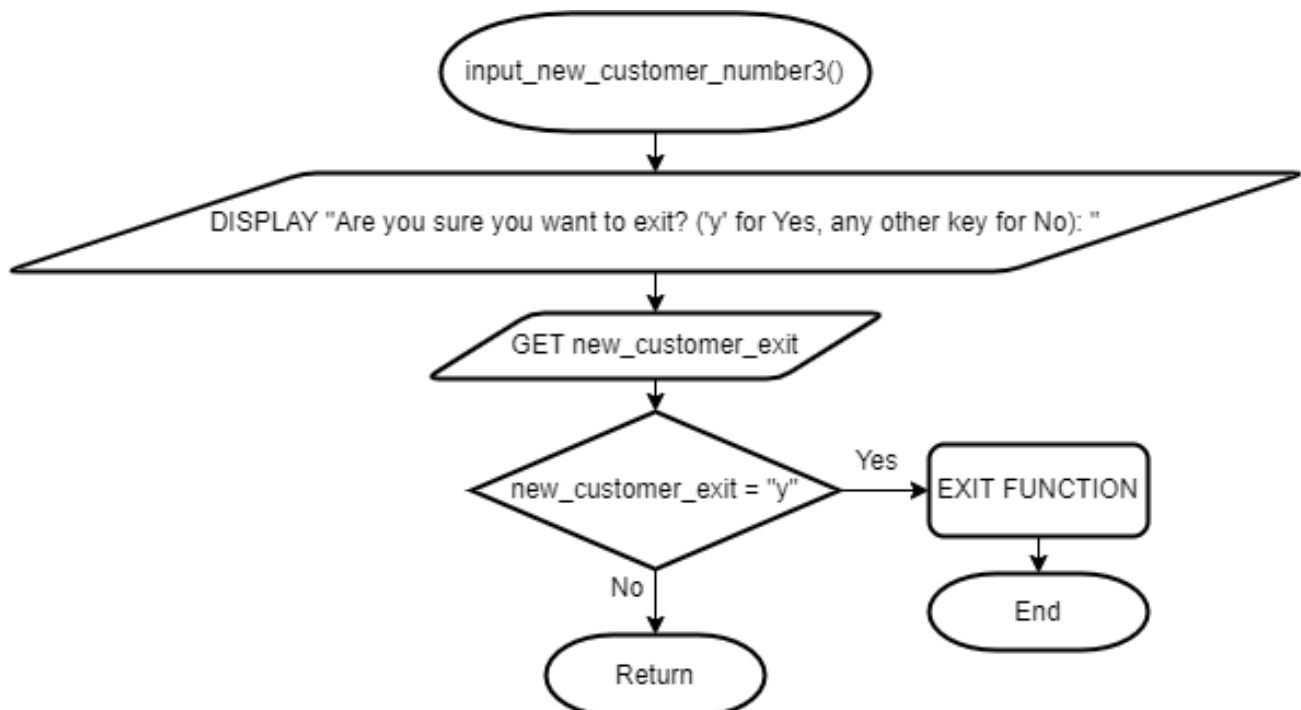
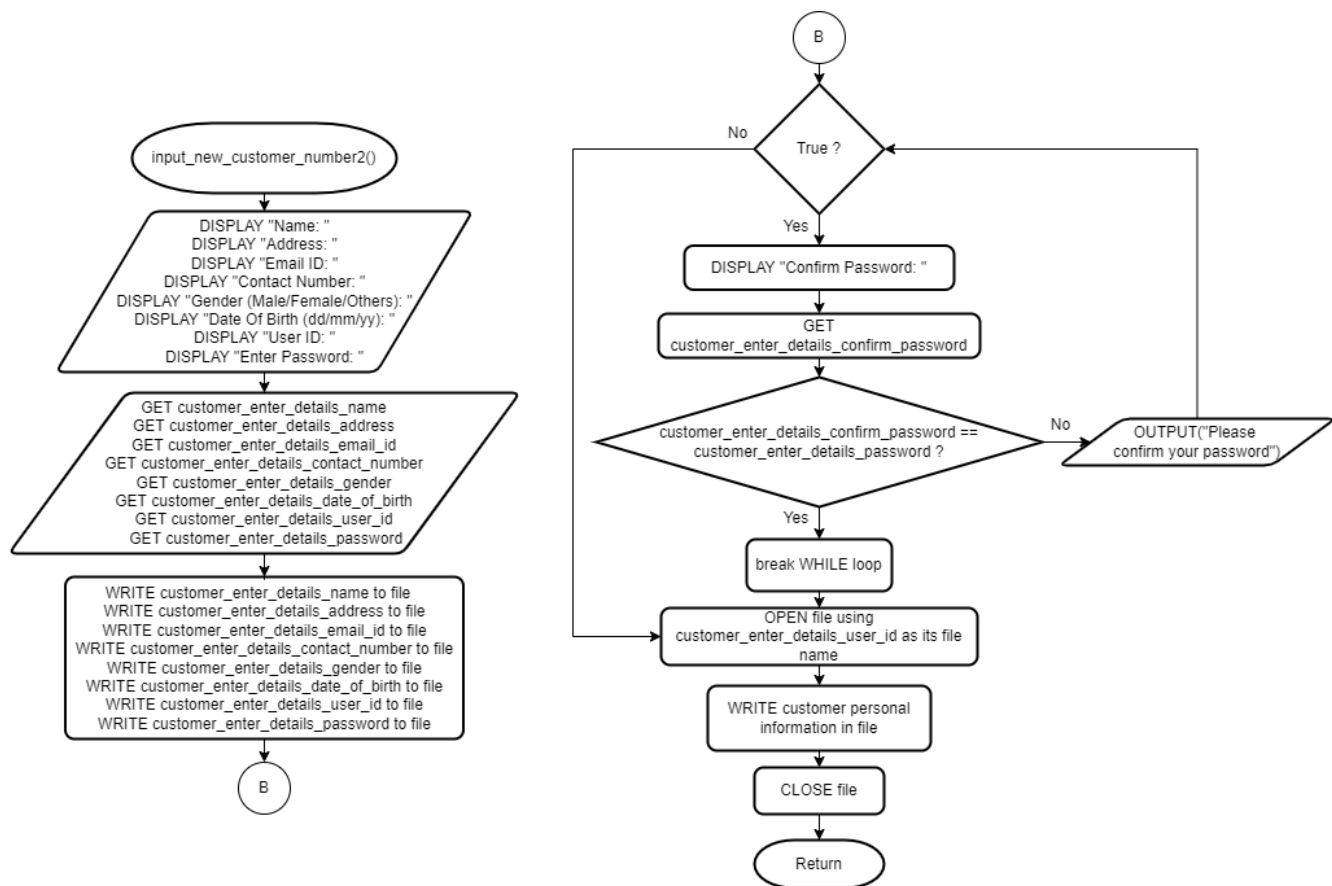


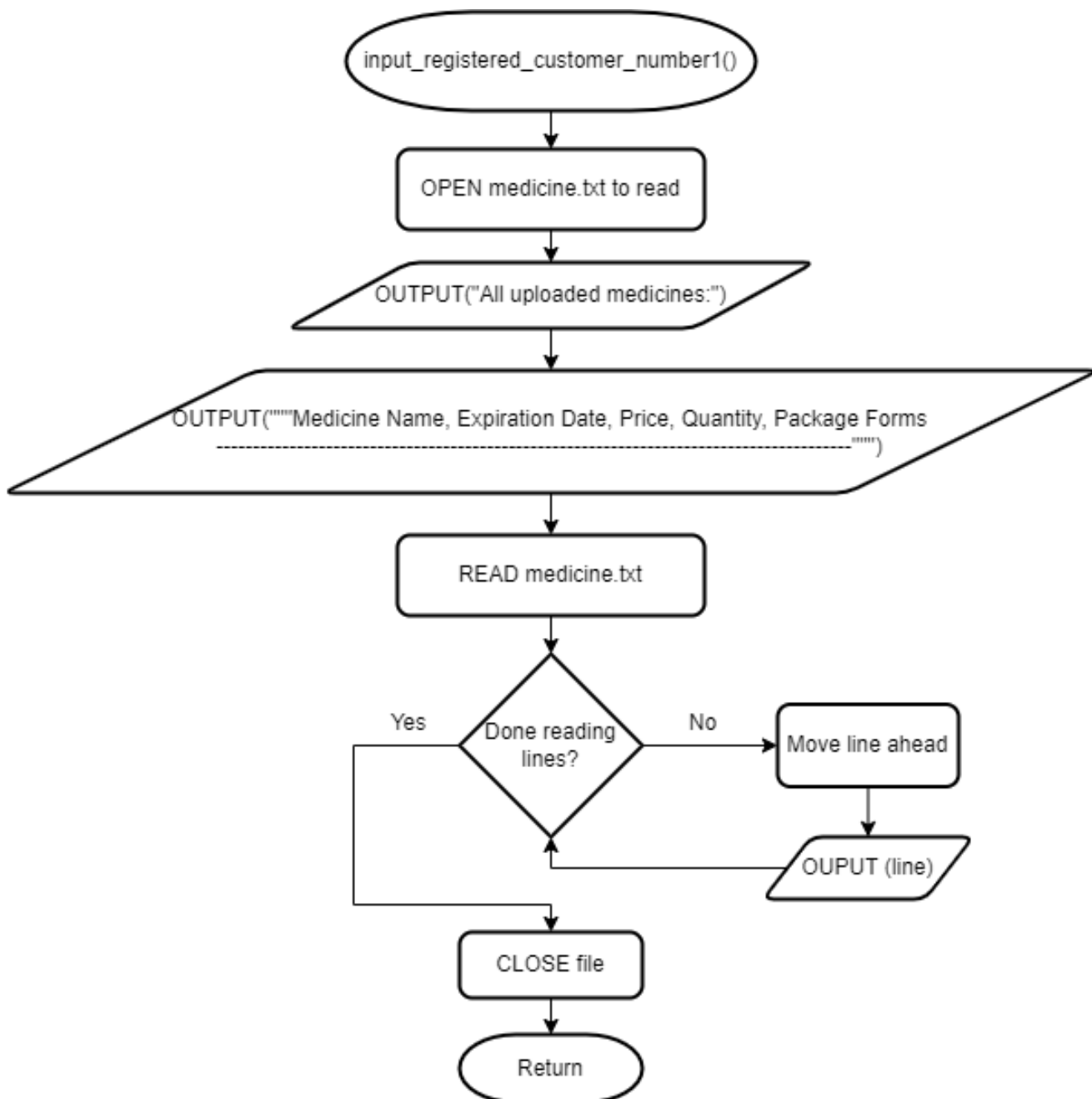


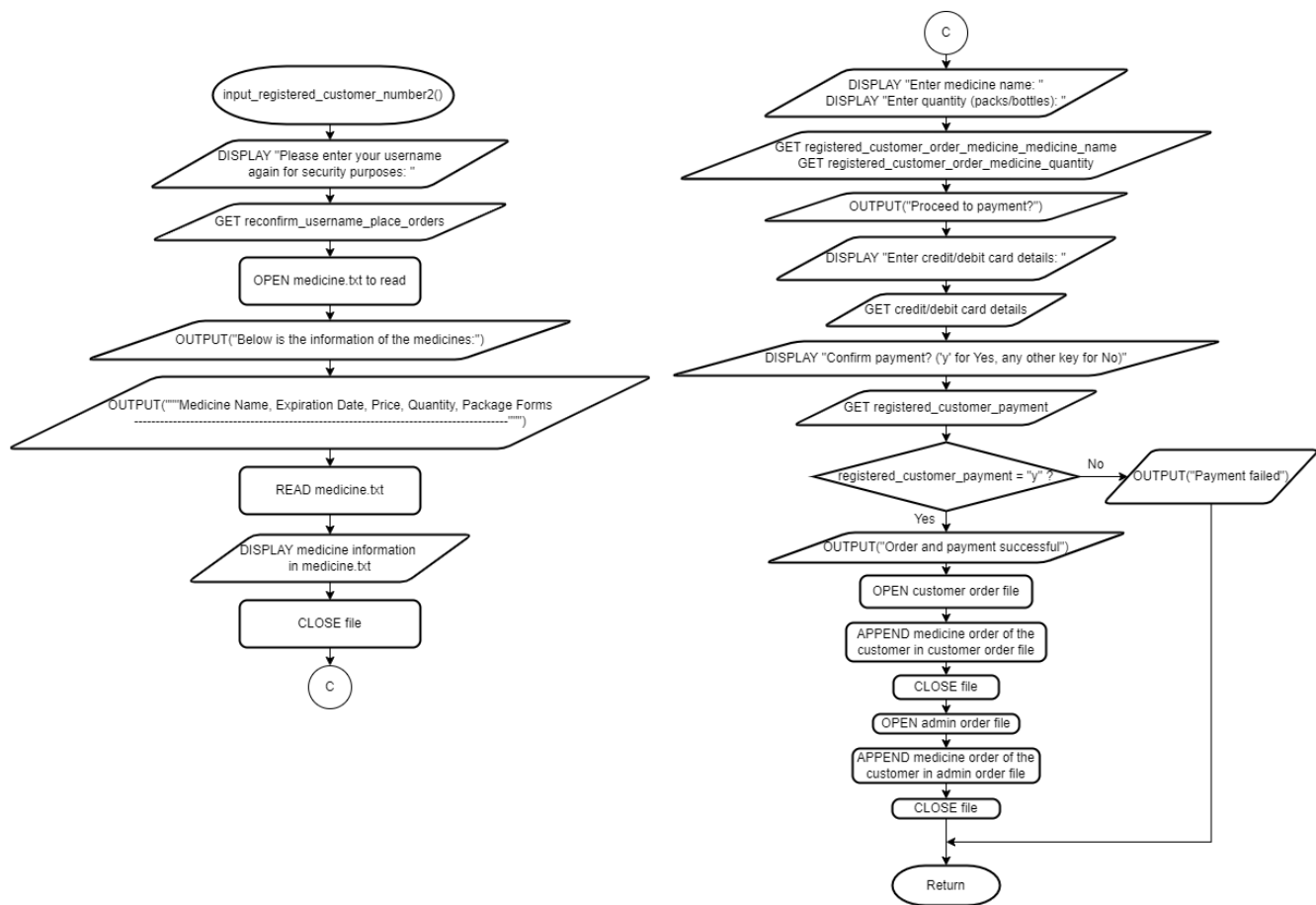




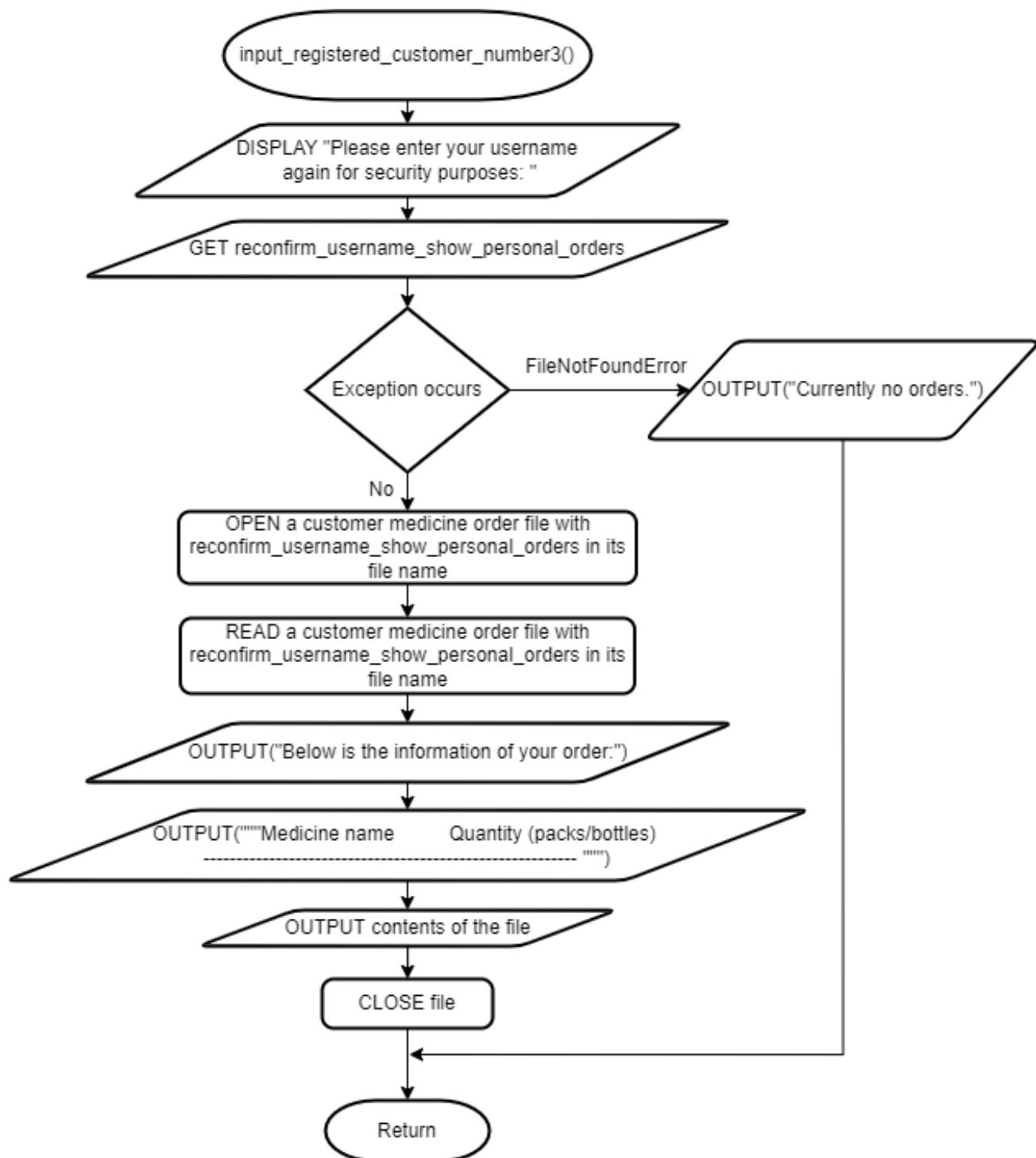


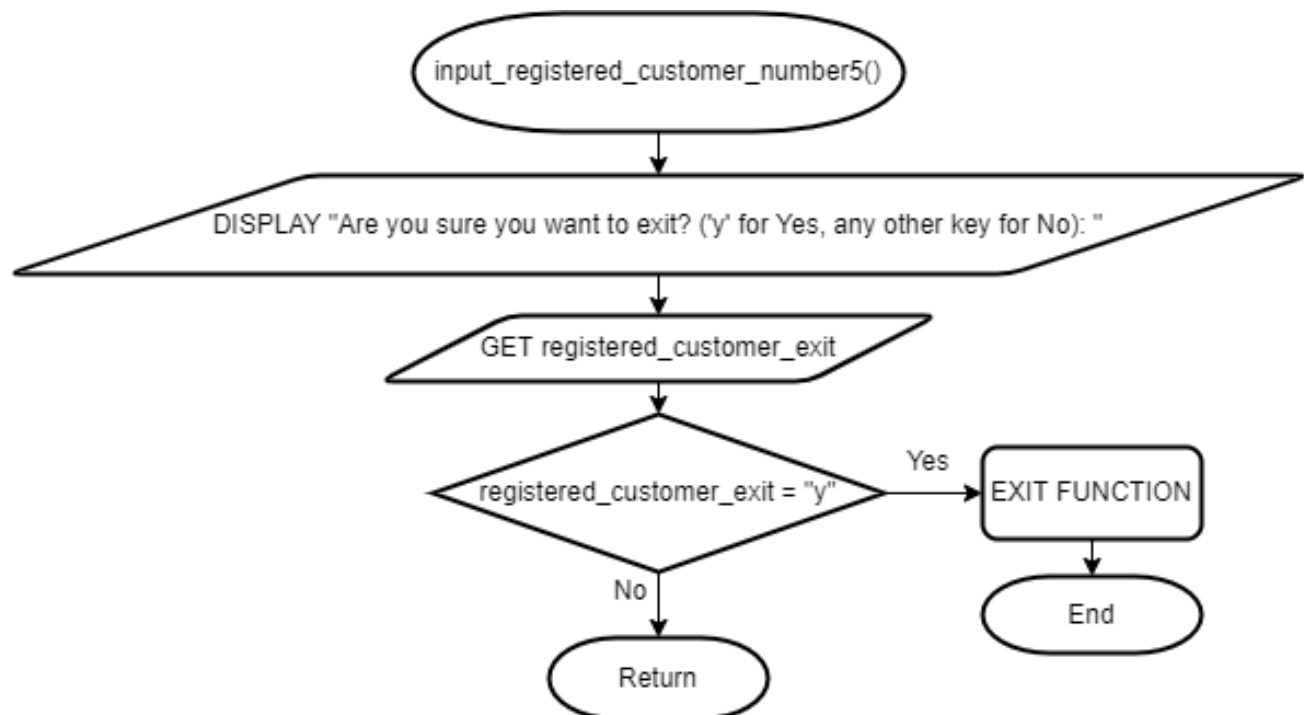
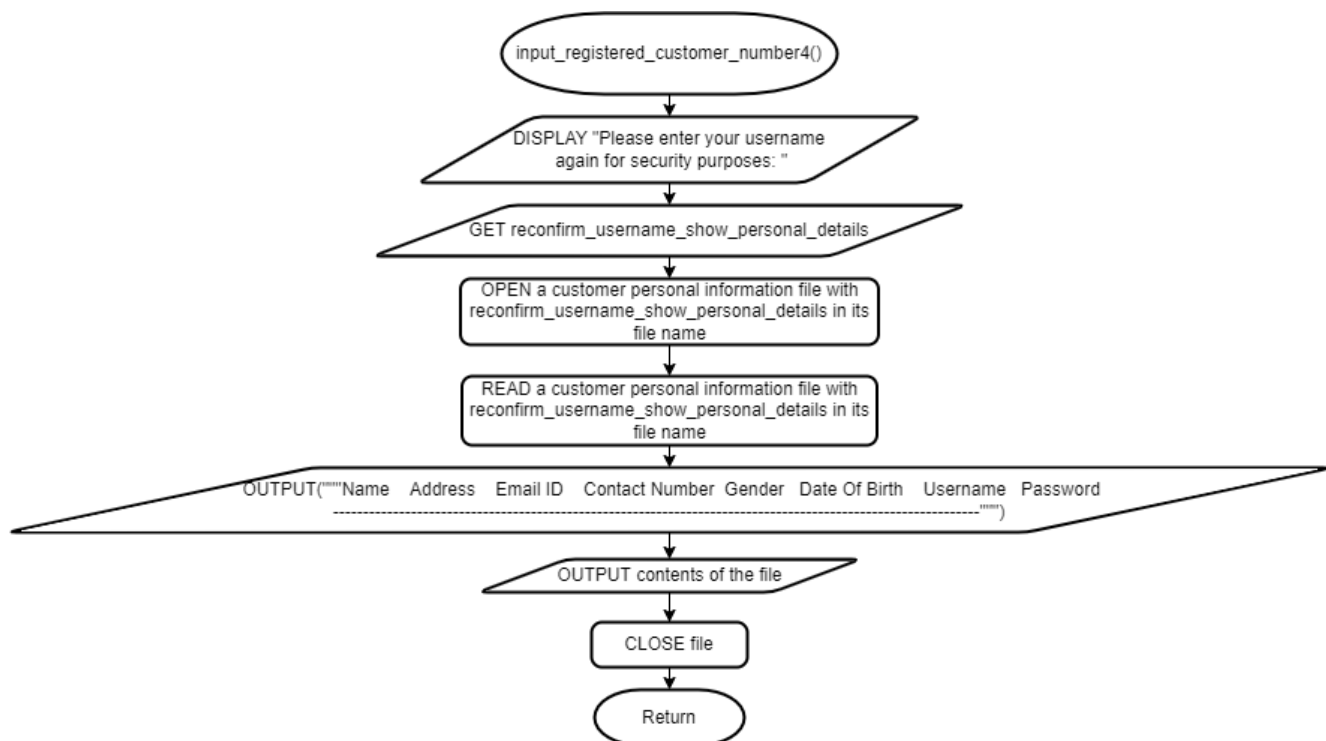


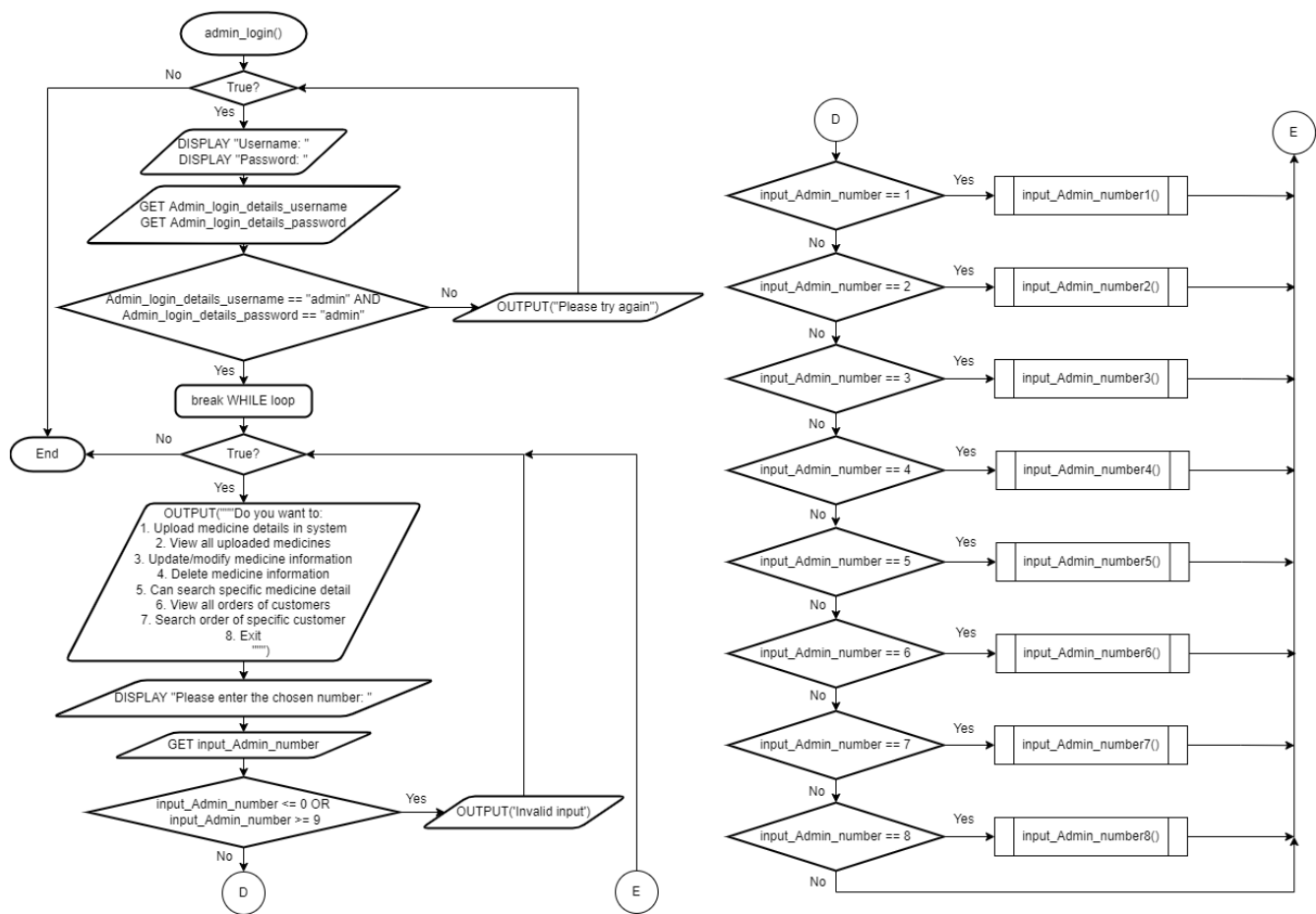


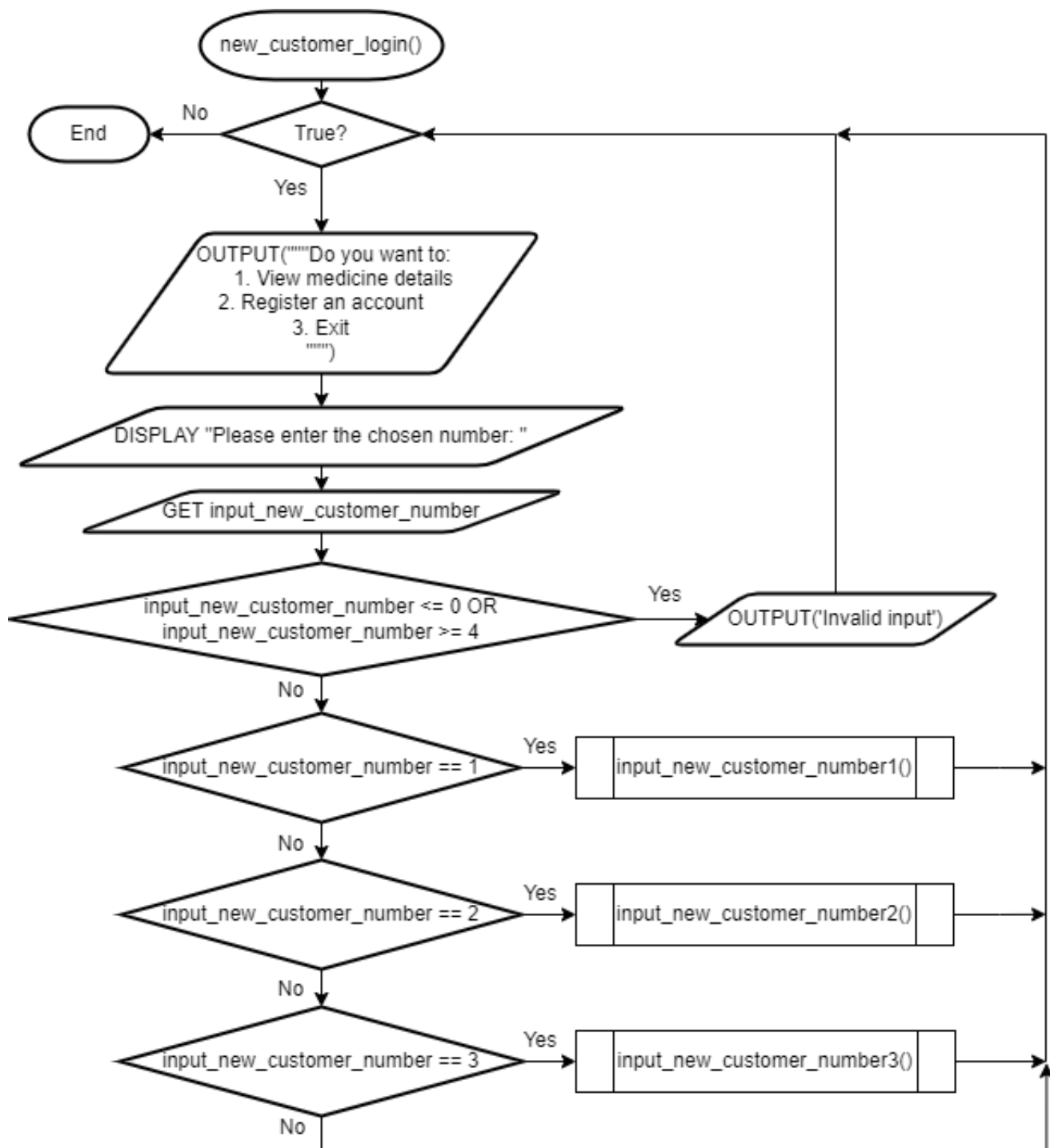


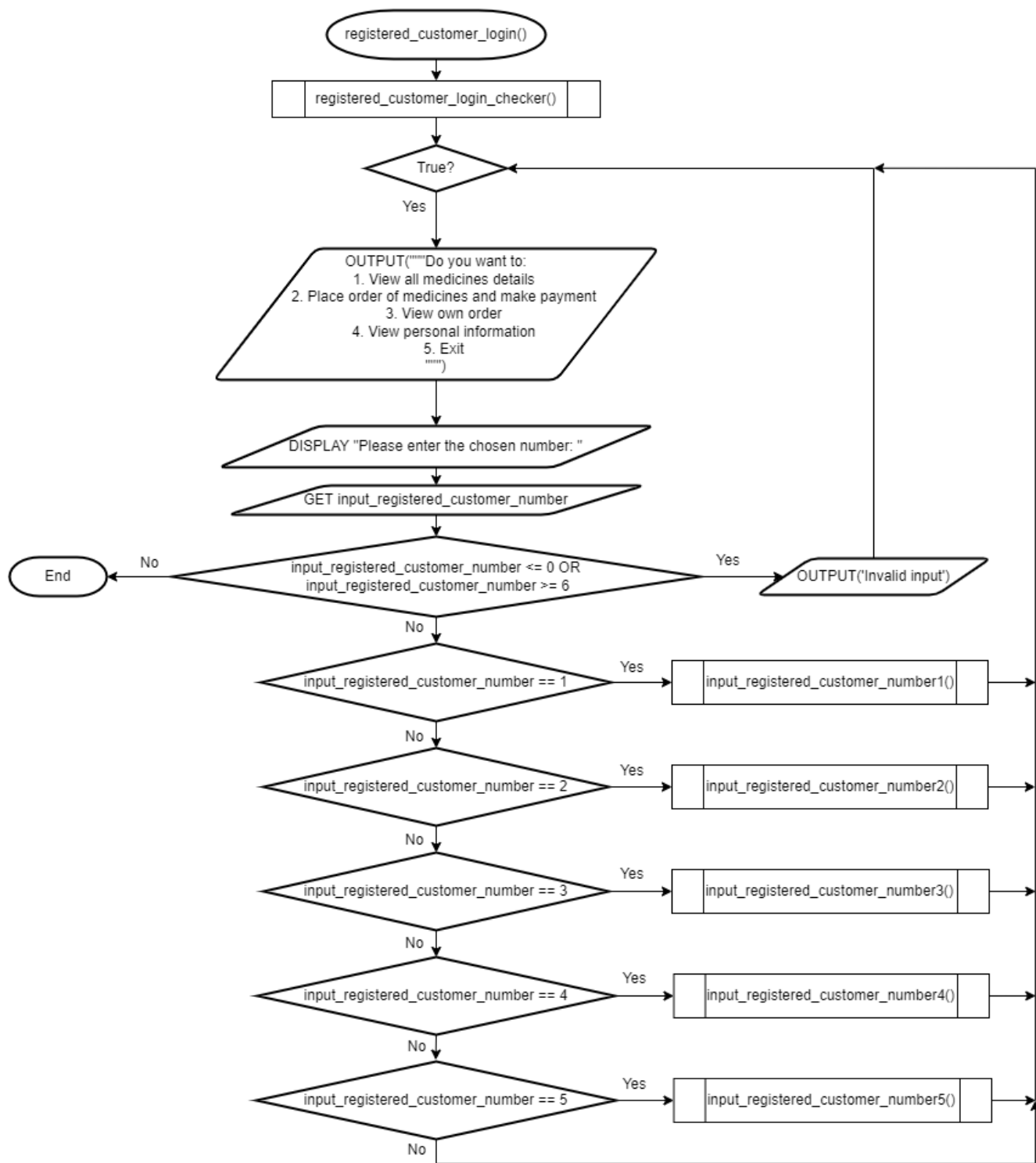


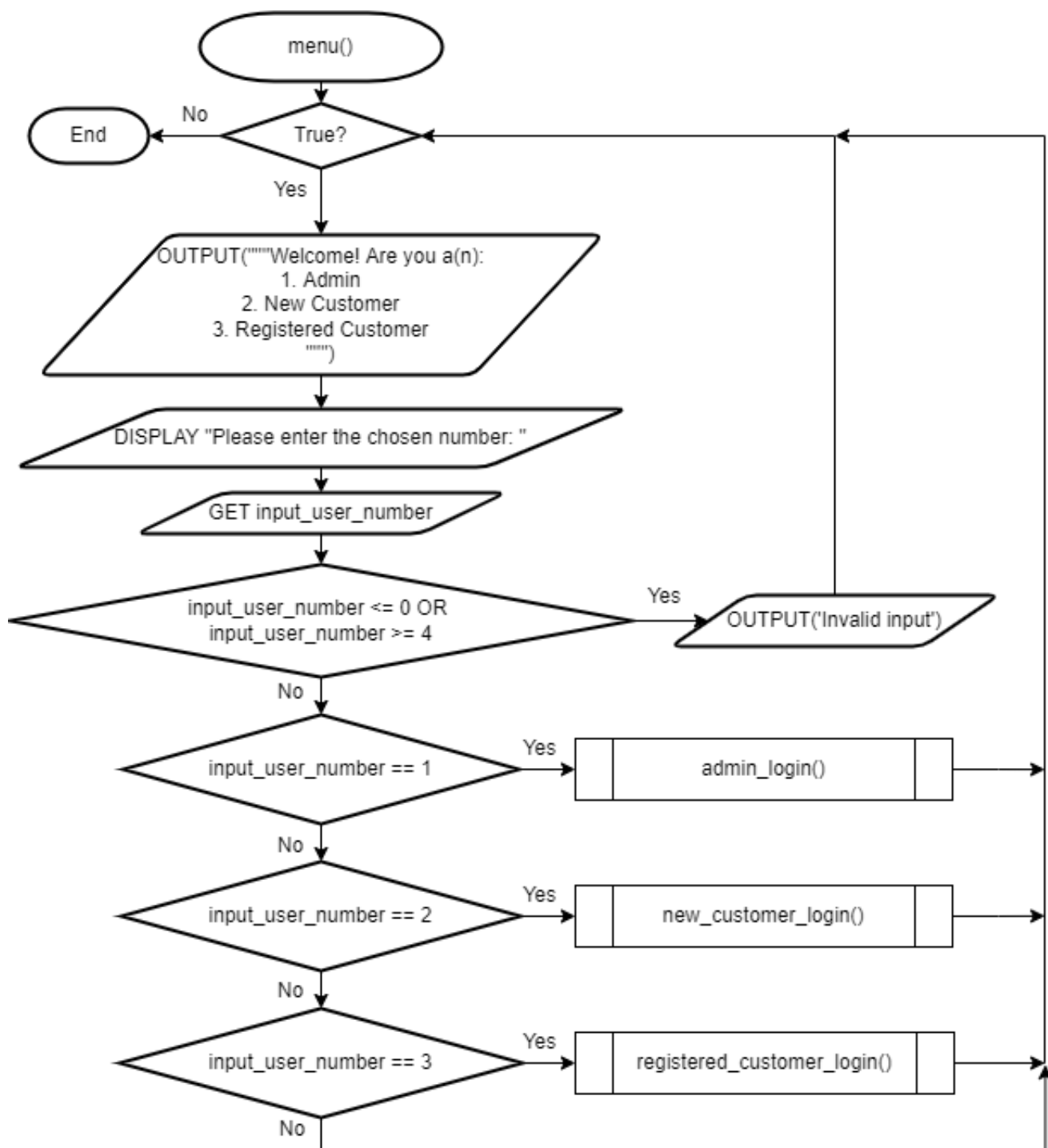


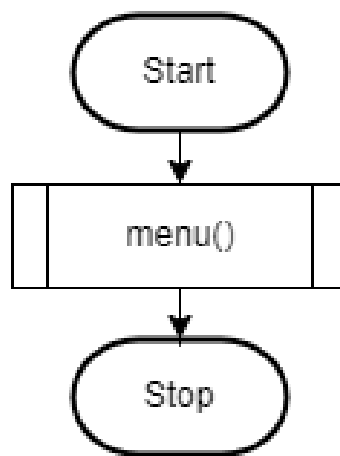












**Program source code**

```
#WONG JIAN WEI
```

```
#TP068349
```

```
#####  
#####
```

```
# this function is to allow new customer to sign up, data entered will be stored in a list in list
```

```
def upload_customer_detail():
```

```
    customer_txt = []
```

```
    for i in range(1):
```

```
        customer_txt_file = []
```

```
        customer_enter_details_name = input("\nName: ")
```

```
        customer_txt_file.append(customer_enter_details_name)
```

```
        customer_enter_details_address = input("\nAddress: ")
```

```
        customer_txt_file.append(customer_enter_details_address)
```

```
        customer_enter_details_email_id = input("\nEmail ID: ")
```

```
        customer_txt_file.append(customer_enter_details_email_id)
```

```
        customer_enter_details_contact_number = input("\nContact Number: ")
```

```
        customer_txt_file.append(customer_enter_details_contact_number)
```

```
        customer_enter_details_gender = input("\nGender (Male/Female/Others): ")
```

```
        customer_txt_file.append(customer_enter_details_gender)
```

```
        customer_enter_details_date_of_birth = input("\nDate Of Birth (dd/mm/yy): ")
```

```
        customer_txt_file.append(customer_enter_details_date_of_birth)
```

```
        customer_enter_details_user_id = input("\nUser ID: ")
```



```
customer_txt_file.append(customer_enter_details_user_id)
```

```
customer_enter_details_password = input("\nEnter Password: ")
```

```
customer_txt_file.append(customer_enter_details_password)
```

```
while True:
```

```
    customer_enter_details_confirm_password = input("\nConfirm Password: ")
```

```
    if customer_enter_details_confirm_password == customer_enter_details_password:
```

```
        break
```

```
    else:
```

```
        print("Please confirm your password")
```

```
customer_txt.append(customer_txt_file)
```

```
return customer_txt
```

```
#####  
#####
```

```
# this function is to check if the customer's login username and password is already registered or not,  
then decide whether to allow the user to login
```

```
def registered_customer_login_checker():
```

```
    registered_customer_login_details_username = input("Username: ")
```

```
    registered_customer_login_details_password = input("Password: ")
```

```
try:
```

```
    registered_customer_check_login =
```

```
open(f'{registered_customer_login_details_username}_info.txt', 'r')
```

```
    print("Login successful!")
```

```
except FileNotFoundError:
```

```
    print("User not found")
```

```
    exit()
```

```
registered_customer_check_login.close()
```

```
#####  
#####  
#####  
#####
```

```
# this function is to allow admin to upload medicine information into the database
```

```
def input_Admin_number1():
```

```
    admin_open_file = open('medicine.txt', 'a')
```

```
    print("""\nUpload medicine detail in system in such format:
```

```
        Medicine name, Expiration date(dd/mm/yy), Price(RM), Quantity (per pack/per bottle),
```

```
Package forms (Blister packs/Prescription bottle)
```

```
    \nFor example:
```

```
    Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs
```

```
    """)
```

```
medicine_enter_details = input("\nEnter details: ")
```

```
admin_open_file.write(medicine_enter_details)
```

```
admin_open_file.write("\n")
```

```
admin_open_file.close()
```

```
print("\nMedicine details uploaded in system")
```

```
input("\nPress <Enter> to continue\n")
```

```
#####  
#####
```

# this function is to allow admin to view all uploaded medicine and its information

```
def input_Admin_number2():
```

```
    try:
```

```
        admin_open_file = open('medicine.txt', 'r')
```

```
    except:
```

```
        print('File cannot be opened:')
```

```
        exit()
```

```
print("\nAll uploaded medicines:\n")
```

```
print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
```

```
-----""")
```

```
for line in admin_open_file:
```

```
    line = line.rstrip()
```

```
    print(line)
```

```
input("\nPress <Enter> to continue\n")
```

```
admin_open_file.close()
```

```
#####
```

```
#####
```

# this function is to allow admin to modify the medicine information by locating the line that will be edited, then enter the new medicine information

```
def input_Admin_number3():
```

```
    print("""
```

```
    print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
```

```
-----""")
```

```
    admin_modify_file = open('medicine.txt', 'r')
```

```
    print(admin_modify_file.read())
```

```
    admin_modify_file.close()
```

```
admin_modify_file = open('medicine.txt', 'r')
admin_string_list = admin_modify_file.readlines()    # this is to get file's content as a list
admin_modify_file.close()

medicine_modify_line = int(input("\nEnter the medicine line number that will be modified <starting
at 1>: "))
medicine_modify_line_number = medicine_modify_line - 1
print("""\nUpdate/modify medicine information in system in such format:
    Medicine name, Expiration date(dd/mm/yy), Price(RM), Quantity, Package forms
    \nFor example:
    Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs
    """)
medicine_modify_details = input("\nEnter new details: ")

medicine_modify_details2 = medicine_modify_details + '\n'
admin_string_list[medicine_modify_line_number] = medicine_modify_details2

admin_modify_file = open('medicine.txt', 'w')
new_medicine_modify_details = "".join(admin_string_list)    # takes all items in the list and joins
them into one string
admin_modify_file.write(new_medicine_modify_details)

admin_modify_file.close()

input("\nPress <Enter> to continue\n")

#####

#####

# this function is to allow admin to delete the medicine information by locating the line that will be
deleted
def input_Admin_number4():
```

```

print("")
try:
    admin_modify_file = open('medicine.txt', 'r')
except:
    print('File cannot be opened')
    exit()

print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
-----""")

admin_modify_file = open('medicine.txt', 'r')
print(admin_modify_file.read())
admin_modify_file.close()
admin_modify_file = open('medicine.txt', 'r')
admin_string_list = admin_modify_file.readlines() # this is to get file's content as a list
admin_modify_file.close()

medicine_modify_line = int(input("\nEnter the medicine line number that will be deleted <starting at
1>: "))
medicine_modify_line_number = medicine_modify_line - 1

medicine_modify_details2 = ""
admin_string_list[medicine_modify_line_number] = medicine_modify_details2

admin_modify_file = open('medicine.txt', 'w')
new_medicine_modify_details = "".join(admin_string_list) # takes all items in the list and joins
them into one string
admin_modify_file.write(new_medicine_modify_details)

admin_modify_file.close()

input("\nPress <Enter> to continue\n")

```

```
#####  
#####  
  
# this function is to allow admin to search for a specific medicine by searching the medicine file line by  
line for line(s) containing the keyword  
def input_Admin_number5():  
    print("")  
    try:  
        search_medicine_file = open('medicine.txt', 'r')  
    except:  
        print('File cannot be opened')  
        exit()  
  
    admin_search_medicine = input("Type what medicine details you want to search: ")  
  
    print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms  
-----""")  
  
    search_medicine_file = open('medicine.txt', 'r')  
    for line in search_medicine_file:  
        line = line.rstrip()  
        if admin_search_medicine.lower() in line.lower():  
            print(line)  
  
        else:  
            continue  
  
    search_medicine_file.close()  
    input("\nPress <Enter> to continue\n")  
  
#####  
#####
```

# this function is to allow admin to view all medicine orders made by customers

```
def input_Admin_number6():
```

```
    admin_read_order_file = open('order.txt', 'r')
```

```
    print("")
```

```
    print("Below is the information of order(s):")
```

```
    print("""Medicine name      Quantity (packs/bottles)
```

```
----- """)
```

```
    print(admin_read_order_file.read())
```

```
    admin_read_order_file.close()
```

```
    input("\nPress <Enter> to continue\n")
```

```
#####
#####
```

# this function is to allow admin to view a specific medicine order made by a customer, it is done by locating and read the order file containing the customer's username

```
def input_Admin_number7():
```

```
    print("")
```

```
    registered_customer_login_details_username_in_admin = input("Customer Username: ")
```

```
    try:
```

```
        registered_customer_order_in_admin =
```

```
open(f'{registered_customer_login_details_username_in_admin}_medicine_order.txt', 'r')
```

```
    except FileNotFoundError:
```

```
        print("User not found")
```

```
        exit()
```

```
    print("Below is the information of order(s):")
```

```
    print("""Medicine name      Quantity (packs/bottles)
```

```
----- """)
```

```
print(registered_customer_order_in_admin.read())
registered_customer_order_in_admin.close()
```

```
input("\nPress <Enter> to continue\n")
```

```
#####
#####
```

```
# this function is to allow admin to exit the program
```

```
def input_Admin_number8():
```

```
    admin_exit = input("\nAre you sure you want to exit? ('y' for Yes, any other key for No): ")
```

```
    if admin_exit == "y":
```

```
        exit()
```

```
#####
#####
#####
#####
#####
#####
```

```
# this function is to let new customer to view all uploaded medicine and its information uploaded by
the admin
```

```
def input_new_customer_number1():
```

```
    new_customer_read_file = open('medicine.txt', 'r')
```

```
    print("\nBelow are the details of the medicines:")
```



```

print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
-----""")

print(new_customer_read_file.read())
new_customer_read_file.close()
input("\nPress <Enter> to continue\n")

#####

#####

# this function is to allow new customer to sign up, the data entered will be stored using list in list, in a
file using their username as a part of the file name
def input_new_customer_number2():
    customer_txt = []
    for i in range(1):
        customer_txt_file = []

        customer_enter_details_name = input("\nName: ")
        customer_txt_file.append(customer_enter_details_name)

        customer_enter_details_address = input("\nAddress: ")
        customer_txt_file.append(customer_enter_details_address)

        customer_enter_details_email_id = input("\nEmail ID: ")
        customer_txt_file.append(customer_enter_details_email_id)

        customer_enter_details_contact_number = input("\nContact Number: ")
        customer_txt_file.append(customer_enter_details_contact_number)

        customer_enter_details_gender = input("\nGender (Male/Female/Others): ")
        customer_txt_file.append(customer_enter_details_gender)

        customer_enter_details_date_of_birth = input("\nDate Of Birth (dd/mm/yy): ")

```

```
customer_txt_file.append(customer_enter_details_date_of_birth)

customer_enter_details_user_id = input("\nUsername: ")
customer_txt_file.append(customer_enter_details_user_id)

customer_enter_details_password = input("\nEnter Password: ")
customer_txt_file.append(customer_enter_details_password)

while True:
    customer_enter_details_confirm_password = input("\nConfirm Password: ")
    if customer_enter_details_confirm_password == customer_enter_details_password:
        break
    else:
        print("Please confirm your password")

customer_txt.append(customer_txt_file)

customer_enter_details_user_string = customer_enter_details_user_id + '_info.txt'

new_customer_registration = open(f'{customer_enter_details_user_string}', "a")

for customer_txt_file in customer_txt:
    for lines in customer_txt_file:
        new_customer_registration.write(lines)
        spacing_customer_txt_file_calculation = int(30) - len(lines)
        spacing_customer_txt_file = spacing_customer_txt_file_calculation * " "
        new_customer_registration.write(spacing_customer_txt_file)

    new_customer_registration.write("\n")

new_customer_registration.close()
print("\nYou have successfully created an account!")
input("\nPress <Enter> to continue\n")
```

```
#####  
#####  
  
# this function is to allow new customer to exit the program  
def input_new_customer_number3():  
    new_customer_exit = input("\nAre you sure you want to exit? ('y' for Yes, any other key for No): ")  
  
    if new_customer_exit == "y":  
        exit()  
  
#####  
#####  
#####  
#####  
#####  
#####  
  
# this function is to let registered customer to view all uploaded medicine and its information uploaded  
by the admin  
def input_registered_customer_number1():  
    registered_customer_read_file = open('medicine.txt', 'r')  
    print("")  
    print("\nBelow are the details of the medicines:")  
    print("")  
    print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms  
-----""")  
    print(registered_customer_read_file.read())  
    registered_customer_read_file.close()  
    input("\nPress <Enter> to continue\n")
```

```
#####
#####
```

```
# this function is to let registered customer to order medicine by entering the name and quantity, then
# proceed to online payment method
# the medicine orders will be placed in an order file that can be viewed by the admin and in an order
# file that can be viewed by the customer
def input_registered_customer_number2():
    reconfirm_username_place_orders = input("Please enter your username again for security purposes:
")

    registered_customer_read_file = open('medicine.txt', 'r')
    print("")
    print("Below is the information of the medicines:")
    print("""Medicine Name, Expiration Date, Price, Quantity, Package Forms
-----""")
    print(registered_customer_read_file.read())
    registered_customer_read_file.close()
    input("\nPress <Enter> to proceed to order\n")

    registered_customer_order_medicine_medicine_name = input("\nEnter medicine name: ")
    registered_customer_order_medicine_quantity = input("\nEnter quantity (packs/bottles): ")

    print("Proceed to payment?")
    input("Press <Enter> to continue\n")

    print("\nEnter credit/debit card details: ")
    input("Enter card number: ")
    input("Enter expiry date (mm/yy): ")
    input("Enter CVV: ")
    registered_customer_payment = input("Confirm payment? ('y' for Yes, any other key for No)")
    if registered_customer_payment == "y":
        print("Order and payment successful")
```

```
registered_customer_order_medicine = []
for i in range(1):
    registered_customer_order_medicine_lines = []

registered_customer_order_medicine_lines.append(registered_customer_order_medicine_medicine_name)

registered_customer_order_medicine_lines.append(registered_customer_order_medicine_quantity)
registered_customer_order_medicine.append(registered_customer_order_medicine_lines)

customer_place_order = reconfirm_username_place_orders + '_medicine_order.txt'
registered_customer_order_medicine_file = open(f'{customer_place_order}', 'a')

for registered_customer_order_medicine_lines in registered_customer_order_medicine:
    for lines in registered_customer_order_medicine_lines:
        registered_customer_order_medicine_file.write(lines)
        spacing_order_txt_file_calculation = int(30) - len(lines)
        spacing_order_txt_file = spacing_order_txt_file_calculation * " "
        registered_customer_order_medicine_file.write(spacing_order_txt_file)

    registered_customer_order_medicine_file.write("\n")

registered_customer_order_medicine_file.close()

registered_customer_order_medicine_in_order = []
for i in range(1):
    registered_customer_order_medicine_in_order_lines = []

registered_customer_order_medicine_in_order_lines.append(registered_customer_order_medicine_medicine_name)
```

```
registered_customer_order_medicine_in_order_lines.append(registered_customer_order_medicine_quantity)
```

```
registered_customer_order_medicine_in_order.append(registered_customer_order_medicine_in_order_lines)
```

```
registered_customer_order_medicine_file_in_order = open('order.txt', 'a')
```

```
for registered_customer_order_medicine_in_order_lines in
registered_customer_order_medicine_in_order:
```

```
    for lines in registered_customer_order_medicine_in_order_lines:
```

```
        registered_customer_order_medicine_file_in_order.write(lines)
```

```
        spacing_order_txt_file_calculation = int(30) - len(lines)
```

```
        spacing_order_txt_file = spacing_order_txt_file_calculation * " "
```

```
        registered_customer_order_medicine_file_in_order.write(spacing_order_txt_file)
```

```
registered_customer_order_medicine_file_in_order.write("\n")
```

```
registered_customer_order_medicine_file_in_order.close()
```

```
else:
```

```
    print("Payment failed")
```

```
input("\nPress <Enter> to continue\n")
```

```
#####
#####
```

```
# this function is to let registered customer to view medicine orders
```

```
# if orders were done, the order information will be shown
```

```
# if no orders were done, message prompt of 'Currently no orders.' will be shown
```

```
def input_registered_customer_number3():
```

```

reconfirm_username_show_personal_orders = input("Please enter your username again for security
purposes: ")
try:
    customer_personal_order_details = reconfirm_username_show_personal_orders +
'_medicine_order.txt'
    registered_customer_read_order_file = open(f'{customer_personal_order_details}', 'r')
    print("")
    print("Below is the information of your order:")
    print("""Medicine name      Quantity (packs/bottles)
----- """)
    print(registered_customer_read_order_file.read())

    registered_customer_read_order_file.close()
    input("\nPress <Enter> to continue\n")

except FileNotFoundError:
    print("\nCurrently no orders.")
    input("\nPress <Enter> to continue\n")

#####

#####

# this function is to allow registered customer to view own personal information by accessing a file
using their username as a part of the file name
def input_registered_customer_number4():
    reconfirm_username_show_personal_details = input("Please enter your username again for security
purposes: ")

    print("""Name                Address                Email ID                Contact
Number      Gender      Date Of Birth      Username      Password
-----
----- """)

```

```
customer_enter_details_user_string = reconfirm_username_show_personal_details + '_info.txt'
registered_customer_view_personal_information = open(f'{customer_enter_details_user_string}', 'r')
print(registered_customer_view_personal_information.read())
registered_customer_view_personal_information.close()
input("\nPress <Enter> to continue\n")
```

```
#####
#####
```

# this function is to allow registered customer to exit the program

```
def input_registered_customer_number5():
```

```
    registered_customer_exit = input("\nAre you sure you want to exit? ('y' for Yes, any other key for
No): ")
```

```
    if registered_customer_exit == "y":
        exit()
```

```
#####
#####
```

# this function is to let admin to login using designated username and password, then input a number to choose the desired function to run

```
def admin_login():
```

```
    while True:
```

```
        Admin_login_details_username = input("Username: ")
```

```
        Admin_login_details_password = input("Password: ")
```

```
        if Admin_login_details_username == "admin" and Admin_login_details_password == "admin":
```

```
            break
```

```
        else:
```

```
            print("\nPlease try again\n")
```



while True:

```
    print("""\nDo you want to:
\t1. Upload medicine details in system
\t2. View all uploaded medicines
\t3. Update/modify medicine information
\t4. Delete medicine information
\t5. Search specific medicine detail
\t6. View all orders of customers
\t7. Search order of specific customer
\t8. Exit
    """)
```

```
    input_Admin_number = int(input("Please enter the chosen number: "))
```

```
    if input_Admin_number <= 0 or input_Admin_number >= 9:
```

```
        print('Invalid input')
```

```
    else:
```

```
        if input_Admin_number == 1:
```

```
            input_Admin_number1()
```

```
        if input_Admin_number == 2:
```

```
            input_Admin_number2()
```

```
        if input_Admin_number == 3:
```

```
            input_Admin_number3()
```

```
        if input_Admin_number == 4:
```

```
            input_Admin_number4()
```

```
        if input_Admin_number == 5:
```

```
            input_Admin_number5()
```

```
if input_Admin_number == 6:
    input_Admin_number6()
```

```
if input_Admin_number == 7:
    input_Admin_number7()
```

```
if input_Admin_number == 8:
    input_Admin_number8()
```

```
#####
#####
```

```
# this function is to let new customer to input a number to choose the desired function to run
```

```
def new_customer_login():
```

```
    while True:
```

```
        print("""\nDo you want to:
```

```
        \t1. View medicine details
```

```
        \t2. Register an account
```

```
        \t3. Exit
```

```
        """)
```

```
input_new_customer_number = int(input("Please enter the chosen number: "))
```

```
if input_new_customer_number <= 0 or input_new_customer_number >= 4:
```

```
    print('Invalid input')
```

```
else:
```

```
    if input_new_customer_number == 1:
```

```
        input_new_customer_number1()
```

```
    if input_new_customer_number == 2:
```

```
        input_new_customer_number2()
```

```
if input_new_customer_number == 3:
    input_new_customer_number3()
```

```
#####
#####
```

```
# this function is to let registered customer to login using designated username and password, then
input a number to choose the desired function to run
```

```
def registered_customer_login():
    registered_customer_login_checker()
```

```
while True:
```

```
    print("""\nDo you want to:
\t1. View all medicines details
\t2. Place order of medicines and make payment
\t3. View own order
\t4. View personal information
\t5. Exit
        """)
```

```
    input_registered_customer_number = int(input("Please enter the chosen number: "))
```

```
if input_registered_customer_number <= 0 or input_registered_customer_number >= 6:
    print('Invalid input')
```

```
else:
```

```
    if input_registered_customer_number == 1:
        input_registered_customer_number1()
```

```
    if input_registered_customer_number == 2:
        input_registered_customer_number2()
```

```
if input_registered_customer_number == 3:
    input_registered_customer_number3()
```

```
if input_registered_customer_number == 4:
    input_registered_customer_number4()
```

```
if input_registered_customer_number == 5:
    input_registered_customer_number5()
```

```
#####
#####
```

```
# this function is a menu, allowing the user to run the program either as an admin, a new customer or a
registered customer
```

```
def menu():
```

```
    while True:
```

```
        print("""\nWelcome! Are you a(n):
```

```
        \t1. Admin
```

```
        \t2. New Customer
```

```
        \t3. Registered Customer
```

```
        """)
```

```
    input_user_number = int(input("Please enter the chosen number: "))
```

```
    if input_user_number <= 0 or input_user_number >= 4:
```

```
        print('Invalid input\n')
```

```
    else:
```

```
        if input_user_number == 1:
```

```
            admin_login()
```

```
        if input_user_number == 2:
```

```
new_customer_login()
```

```
if input_user_number == 3:  
    registered_customer_login()
```

```
#####  
#####  
# this function is called to run the whole program  
menu()
```

### Screenshots of sample input/output

#### Main page 'Admin'

Welcome! Are you a(n):

1. Admin
2. New Customer
3. Registered Customer

Please enter the chosen number: 1

Username: admin

Password: admin

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number:

By running the code, when entered '1', 'admin' as the username and 'admin' as the password has to be entered to access the admin function.

**Main page 'New Customer'**

Welcome! Are you a(n):

1. Admin
2. New Customer
3. Registered Customer

Please enter the chosen number: 2

Do you want to:

1. View medicine details
2. Register an account
3. Exit

Please enter the chosen number:

By running the code, when entered '2', the user can access the new customer function.

**Main page 'Registered Customer'**

Welcome! Are you a(n):

1. Admin
2. New Customer
3. Registered Customer

Please enter the chosen number: 3

Username: jw

Password: jw

Login successful!

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number:

By running the code, when entered '3', the user will proceed to a login system. After the login attempt is successful, the user can access the registered customer function. Accounts with username and password of 'ali', 'jw' and 'siti' has been added into the system for testing.



**Admin page ‘Upload medicine’**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 1

Upload medicine detail in system in such format:

Medicine name, Expiration date(dd/mm/yy), Price(RM), Quantity (per pack/per bottle), Package forms (Blister packs/Prescription bottle)

For example:

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs

Enter details: Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs

After entering ‘1’ in the Admin page, the admin can upload medicine detail into the database by following a format of ‘Medicine name, Expiration date(dd/mm/yy), Price (RM), Quantity (per pack/per bottle), Package forms (Blister packs/Prescription bottle)’.

**Admin page 'View medicine'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 2

All uploaded medicines:

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs  
Ibuprofen, 11/06/23, RM100, 20 tablets per pack, Blister packs  
Aspirin, 16/06/23, RM38, 30 capsules per pack, Blister packs  
Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle  
Lotrazine, 06/12/23, RM90, 50 capsules per bottle, Prescription bottle  
Anpeson, 18/11/23, RM80, 10 capsule per bottle, Prescription bottle  
Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs

Press <Enter> to continue

After entering '2' in the Admin page, the admin can view all uploaded medicine details.

**Admin page 'Update medicine information'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 3

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs  
Ibuprofen, 11/06/23, RM100, 20 tablets per pack, Blister packs  
Aspirin, 16/06/23, RM38, 30 capsules per pack, Blister packs  
Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle  
Lotrazine, 06/12/23, RM90, 50 capsules per bottle, Prescription bottle  
Anpeson, 18/11/23, RM80, 10 capsule per bottle, Prescription bottle  
Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs

Enter the medicine line number that will be modified <starting at 1>: 6

Update/modify medicine information in system in such format:

Medicine name, Expiration date(dd/mm/yy), Price(RM), Quantity, Package forms

For example:

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs

Enter new details: Anpeson, 09/01/23, RM70, 15 capsule per bottle, Prescription bottle

Press <Enter> to continue

After entering '3' in the Admin page, the admin can modify and update all uploaded medicine details. It is done by locating the line of which the medicine details will be modified. In the figure above, line 6, which consists of the details of medicine Anpeson, is modified.

**Admin page 'Delete medicine information'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 4

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs  
Ibuprofen, 11/06/23, RM100, 20 tablets per pack, Blister packs  
Aspirin, 16/06/23, RM38, 30 capsules per pack, Blister packs  
Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle  
Lotrazine, 06/12/23, RM90, 50 capsules per bottle, Prescription bottle  
Anpeson, 09/01/23, RM70, 15 capsule per bottle, Prescription bottle  
Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs

Enter the medicine line number that will be deleted <starting at 1>: 6

Press <Enter> to continue

After entering '4' in the Admin page, the admin can delete medicine details. It is done by locating the line of which the medicine details will be deleted. In the figure above, line 6, which consists of the details of medicine Anpeson, is deleted.

**Admin page 'Search medicine detail'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 5

Type what medicine details you want to search: **Tamiflu**

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle

Press <Enter> to continue

After entering '5' in the Admin page, the admin can search for specific medicine details. It is done by matching the keyword with the lines in the medicine details file, then display the search result.

**Admin page 'View customer orders'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 6

Below is the information of order(s):

| Medicine name | Quantity (packs/bottles) |
|---------------|--------------------------|
|---------------|--------------------------|

|           |           |
|-----------|-----------|
| Tamiflu   | 2 bottles |
| Lotrazine | 1 bottle  |
| Ibuprofen | 1 pack    |

Press <Enter> to continue

After entering '6' in the Admin page, the admin can view all orders from customer. In the figure above, three medicine orders are displayed.

**Admin page 'Search specific order'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 7

Customer Username: ali

Below is the information of order(s):

| Medicine name | Quantity (packs/bottles) |
|---------------|--------------------------|
| Tamiflu       | 2 bottles                |
| Lotrazine     | 1 bottle                 |

Press <Enter> to continue

After entering '7' in the Admin page, the admin can view specific orders from a specific customer. In the figure above, two medicine orders, which Ali has made, are displayed.

**Admin page 'Exit'**

Do you want to:

1. Upload medicine details in system
2. View all uploaded medicines
3. Update/modify medicine information
4. Delete medicine information
5. Search specific medicine detail
6. View all orders of customers
7. Search order of specific customer
8. Exit

Please enter the chosen number: 8

Are you sure you want to exit? ('y' for Yes, any other key for No): y

After entering '8' in the Admin page, the admin can exit the system. In the figure above, 'y' is entered to allow the admin to exit the system. By entering key other than 'y', the system returns to the Admin page.



**New Customer page ‘View medicine’**

Do you want to:

1. View medicine details
2. Register an account
3. Exit

Please enter the chosen number: 1

Below are the details of the medicines:

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs  
Ibuprofen, 11/06/23, RM100, 20 tablets per pack, Blister packs  
Aspirin, 16/06/23, RM38, 30 capsules per pack, Blister packs  
Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle  
Lotrazine, 06/12/23, RM90, 50 capsules per bottle, Prescription bottle  
Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs  
Anpeson, 09/01/23, RM70, 15 capsule per bottle, Prescription bottle

Press <Enter> to continue

After entering ‘1’ in the New Customer page, the new customer can view all uploaded medicine details done by the system admin.

**New Customer page 'Register account'**

Do you want to:

1. View medicine details
2. Register an account
3. Exit

Please enter the chosen number: 2

Name: Wong Jian Wei

Address: 29, Jalan Ungu

Email ID: jianwei@gmail.com

Contact Number: 0129439489

Gender (Male/Female/Others): Male

Date Of Birth (dd/mm/yy): 08/08/03

Username: jw

Enter Password: jw

Confirm Password: jw

You have successfully created an account!

Press <Enter> to continue

After entering '2' in the New Customer page, the new customer can make registration to become a registered customer. The new customer has to enter all required personal details, preferred username, and password.

**New Customer page 'Exit'**

Press <Enter> to continue

Do you want to:

1. View medicine details
2. Register an account
3. Exit

Please enter the chosen number: 3

Are you sure you want to exit? ('y' for Yes, any other key for No): y

After entering '3' in the New Customer page, the new customer can exit the system. In the figure above, 'y' is entered to allow the new customer to exit the system. By entering key other than 'y', the system returns to the New Customer page.

**Registered Customer page 'View medicine'**

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number: 1

Below are the details of the medicines:

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs  
Ibuprofen, 11/06/23, RM100, 20 tablets per pack, Blister packs  
Aspirin, 16/06/23, RM38, 30 capsules per pack, Blister packs  
Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle  
Lotrazine, 06/12/23, RM90, 50 capsules per bottle, Prescription bottle  
Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs  
Anpeson, 09/01/23, RM70, 15 capsule per bottle, Prescription bottle

Press <Enter> to continue

After entering '1' in the Registered Customer page, the registered customer can view all uploaded medicine details done by the system admin.

**Registered Customer page ‘Place order and make payment’**

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number: 2

Please enter your username again for security purposes: jw

Below is the information of the medicines:

Medicine Name, Expiration Date, Price, Quantity, Package Forms

---

Paracetamol, 11/06/23, RM7, 10 caplets per pack, Blister packs  
Ibuprofen, 11/06/23, RM100, 20 tablets per pack, Blister packs  
Aspirin, 16/06/23, RM38, 30 capsules per pack, Blister packs  
Tamiflu, 21/06/23, RM50, 30 capsules per bottle, Prescription bottle  
Lotrazine, 06/12/23, RM90, 50 capsules per bottle, Prescription bottle  
Rosapen, 08/05/23, RM22, 15 caplets per pack, Blister packs  
Anpeson, 09/01/23, RM70, 15 capsule per bottle, Prescription bottle

Press <Enter> to proceed to order

Enter medicine name: Aspirin

Enter quantity (packs/bottles): 1 pack

Proceed to payment?

Press <Enter> to continue

Enter credit/debit card details:

Enter card number: 11111111111111

Enter expiry date (mm/yy): 12/24

Enter CVV: 222

Confirm payment? ('y' for Yes, any other key for No)y

Order and payment successful

Press <Enter> to continue

After entering ‘2’ in the Registered Customer page, the registered customer can order medicine by entering the name and quantity, then proceed to online payment method. As shown in the figure above, 1 pack of Aspirin is ordered by the user. The user then proceeds to payment method by entering card details. Enter ‘y’ to confirm payment, enter key other than ‘y’ to cancel order and payment.

**Registered Customer page 'View order'**

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number: 3

Please enter your username again for security purposes: jw

Currently no orders.

Press <Enter> to continue

After entering '2' in the Registered Customer page, the registered customer can view personal orders. As shown in the figure above, if no order was made by the user, 'Currently no orders.' will be displayed.

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number: 3

Please enter your username again for security purposes: jw

Below is the information of your order:

| Medicine name | Quantity (packs/bottles) |
|---------------|--------------------------|
|---------------|--------------------------|

|         |        |
|---------|--------|
| Aspirin | 1 pack |
|---------|--------|

Press <Enter> to continue

As shown in the figure above, if medicine order was made by the user, medicine orders will be displayed.

**Registered Customer page ‘View personal information’**

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number: 4

Please enter your username again for security purposes: jw

| Name | Address | Email ID | Contact Number | Gender | Date Of Birth | Username | Password |
|------|---------|----------|----------------|--------|---------------|----------|----------|
|------|---------|----------|----------------|--------|---------------|----------|----------|

|               |                |                   |            |      |          |    |    |
|---------------|----------------|-------------------|------------|------|----------|----|----|
| Wong Jian Wei | 29, Jalan Ungu | jianwei@gmail.com | 0129439489 | Male | 08/08/03 | jw | jw |
|---------------|----------------|-------------------|------------|------|----------|----|----|

Press <Enter> to continue

After entering ‘4’ in the Registered Customer page, the registered customer can view personal information. As shown in the figure above, all personal information that the user previously entered during registration will be displayed.

**Registered Customer page 'Exit'**

Do you want to:

1. View all medicines details
2. Place order of medicines and make payment
3. View own order
4. View personal information
5. Exit

Please enter the chosen number: 5

Are you sure you want to exit? ('y' for Yes, any other key for No): y

After entering '5' in the Registered Customer page, the registered customer can exit the system.

In the figure above, 'y' is entered to allow the registered customer to exit the system. By entering key other than 'y', the system returns to the Registered Customer page.



### **Conclusion**

Online Pharmacy Management System (OPMS) consists of three different functions: Admin, New Customer and Registered Customer. Admin function consists of eight functions: 'Upload medicine', 'View medicine', 'Update medicine information', 'Delete medicine information', 'Search medicine detail', 'View customer orders', 'Search specific order' and 'Exit'. New Customer function consists of three functions: 'View medicine', 'Register account' and 'Exit'. Registered Customer function consists of five functions: 'View medicine', 'Place order and make payment', 'View order', 'View personal information' and 'Exit'.

## References

How to edit a file in Python. Retrieved 12 June 2022, from [https://www.adamsmith.haus/python/answers/how-to-edit-a-file-in-python#:~:text=Use%20file.,-read-lines\(\)%20to&text=Use%20open\(file%2C%20mode%3D,deleting%20or%20adding%20a%20line.](https://www.adamsmith.haus/python/answers/how-to-edit-a-file-in-python#:~:text=Use%20file.,-read-lines()%20to&text=Use%20open(file%2C%20mode%3D,deleting%20or%20adding%20a%20line.)

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