



**Faculty of Engineering & Technology**  
**Department of Electrical & Computer Engineering**  
**LINUX LABORATORY**  
**ENCS3130**  
**Project #2**

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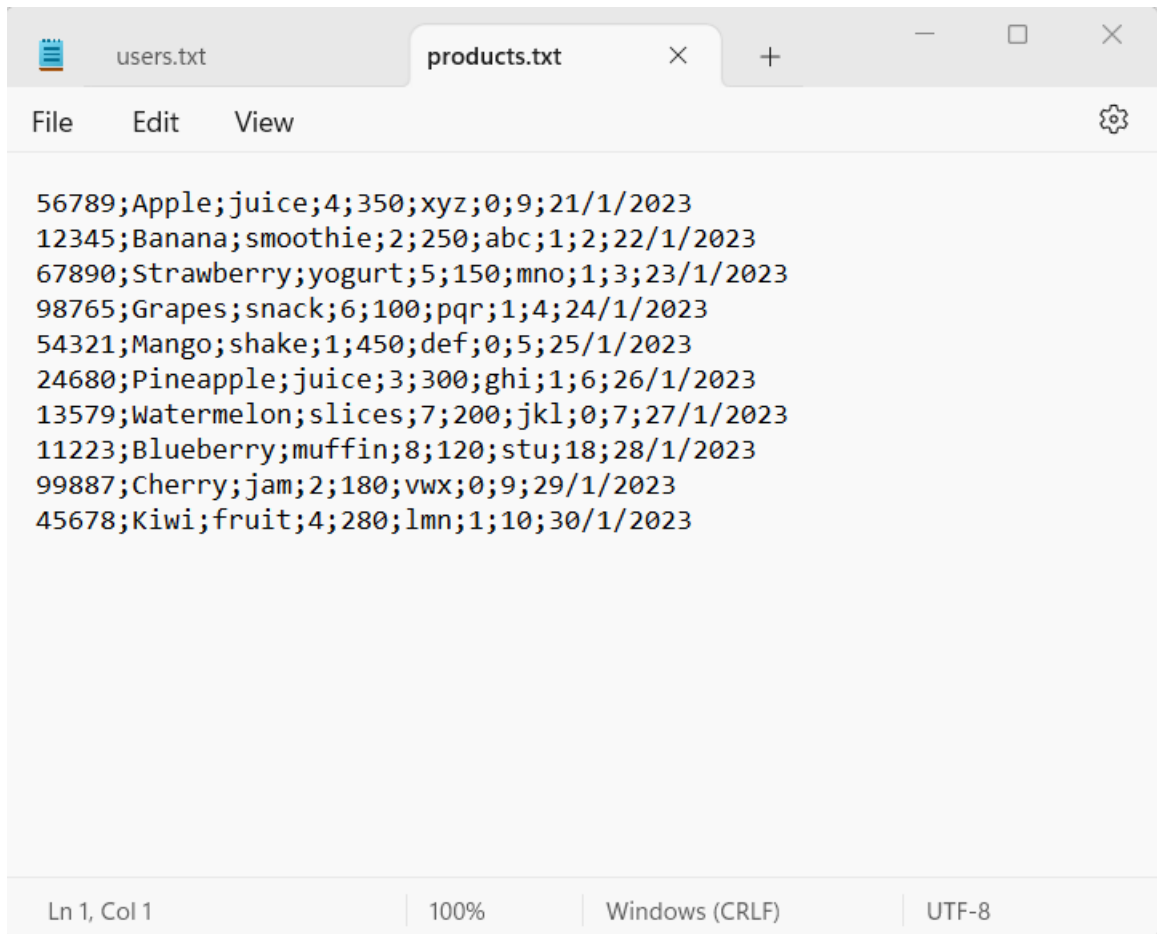
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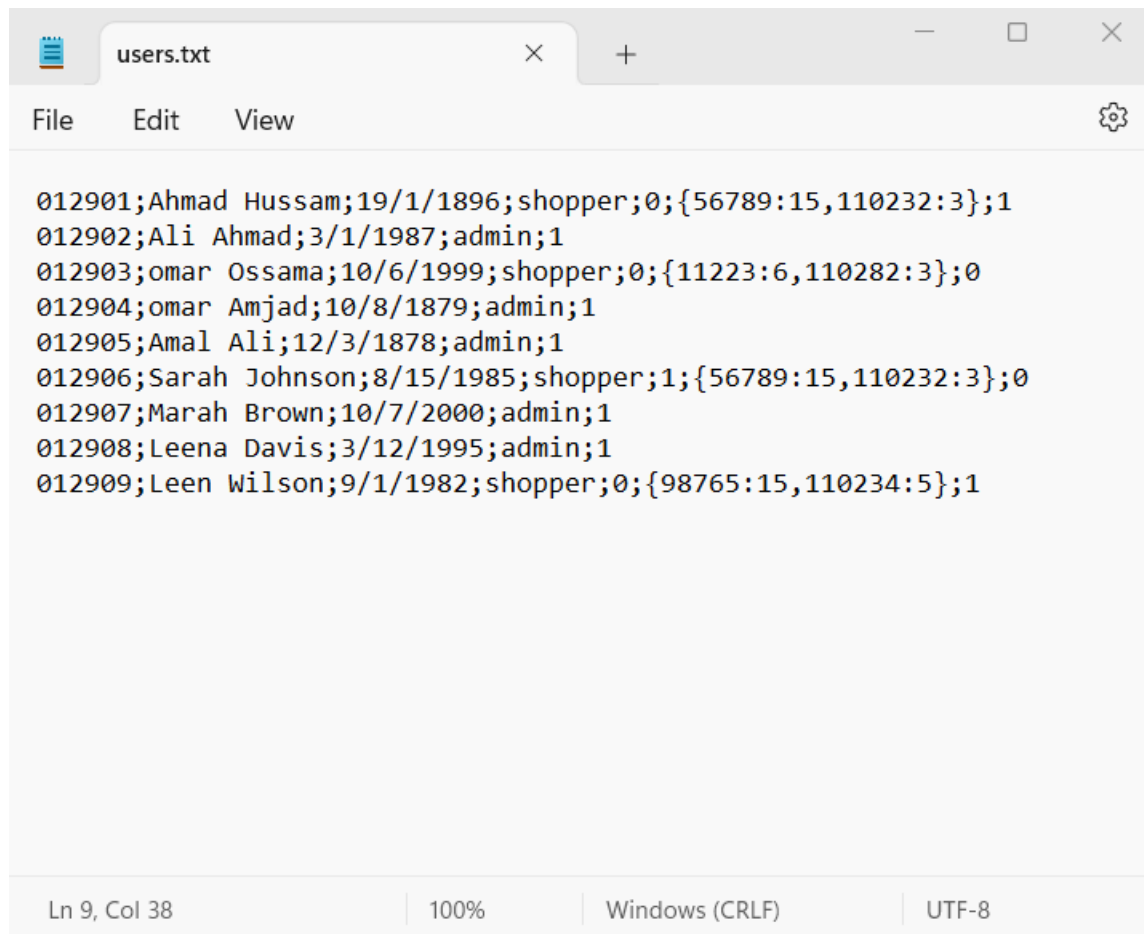
In this report we tried all possible cases for all the menu options, our code was attached with this report, we can check it.



The image shows a text editor window with two tabs: 'users.txt' and 'products.txt'. The 'products.txt' tab is active. The editor has a menu bar with 'File', 'Edit', and 'View'. The main text area contains ten lines of data, each representing a product entry. The data is formatted as a semicolon-separated list of values. The status bar at the bottom shows 'Ln 1, Col 1', '100%', 'Windows (CRLF)', and 'UTF-8'.

```
56789;Apple;juice;4;350;xyz;0;9;21/1/2023
12345;Banana;smoothie;2;250;abc;1;2;22/1/2023
67890;Strawberry;yogurt;5;150;mno;1;3;23/1/2023
98765;Grapes;snack;6;100;pqr;1;4;24/1/2023
54321;Mango;shake;1;450;def;0;5;25/1/2023
24680;Pineapple;juice;3;300;ghi;1;6;26/1/2023
13579;Watermelon;slices;7;200;jkl;0;7;27/1/2023
11223;Blueberry;muffin;8;120;stu;18;28/1/2023
99887;Cherry;jam;2;180;vw;0;9;29/1/2023
45678;Kiwi;fruit;4;280;lmn;1;10;30/1/2023
```

Figure 1(products.txt file)

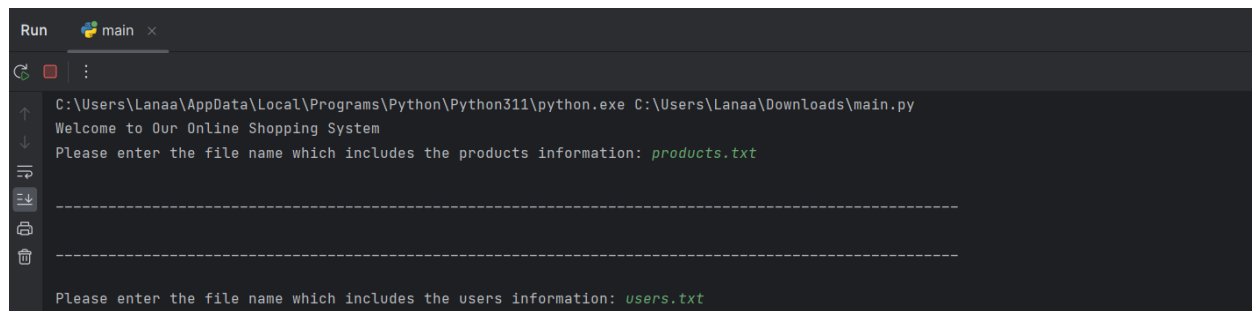


The image shows a text editor window with a single tab titled 'users.txt'. The window has a menu bar with 'File', 'Edit', and 'View' options, and a settings icon on the right. The text area contains nine lines of user data, each separated by a semicolon. The data includes a unique ID, a name, a date of birth, a role, a status, and a set of permissions. The status bar at the bottom indicates the current position is 'Ln 9, Col 38', the zoom is '100%', the encoding is 'Windows (CRLF)', and the character set is 'UTF-8'.

```
012901;Ahmad Hussam;19/1/1896;shopper;0;{56789:15,110232:3};1
012902;Ali Ahmad;3/1/1987;admin;1
012903;omar Ossama;10/6/1999;shopper;0;{11223:6,110282:3};0
012904;omar Amjad;10/8/1879;admin;1
012905;Amal Ali;12/3/1878;admin;1
012906;Sarah Johnson;8/15/1985;shopper;1;{56789:15,110232:3};0
012907;Marah Brown;10/7/2000;admin;1
012908;Leena Davis;3/12/1995;admin;1
012909;Leen Wilson;9/1/1982;shopper;0;{98765:15,110234:5};1
```

Ln 9, Col 38 | 100% | Windows (CRLF) | UTF-8

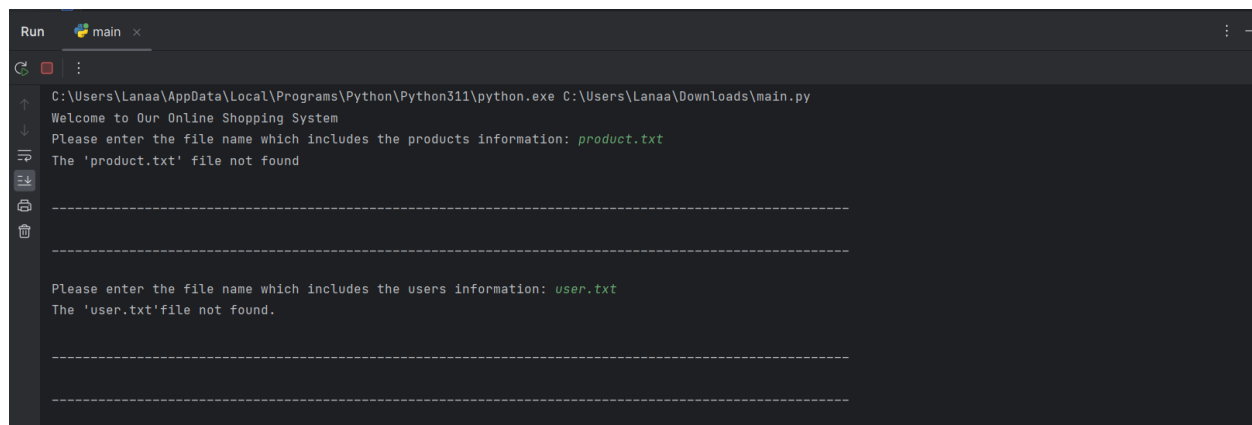
Figure 2(users.txt file)



The screenshot shows a terminal window titled 'Run' with a tab for 'main'. The command executed is `C:\Users\Lanaa\AppData\Local\Programs\Python\Python311\python.exe C:\Users\Lanaa\Downloads\main.py`. The program output is as follows:

```
C:\Users\Lanaa\AppData\Local\Programs\Python\Python311\python.exe C:\Users\Lanaa\Downloads\main.py
Welcome to Our Online Shopping System
Please enter the file name which includes the products information: products.txt
-----
-----
Please enter the file name which includes the users information: users.txt
```

*Figure 3(test case1: user entered a correct file names)*



The screenshot shows the same terminal window as Figure 3, but with different user input. The program output is as follows:

```
C:\Users\Lanaa\AppData\Local\Programs\Python\Python311\python.exe C:\Users\Lanaa\Downloads\main.py
Welcome to Our Online Shopping System
Please enter the file name which includes the products information: product.txt
The 'product.txt' file not found
-----
-----
Please enter the file name which includes the users information: user.txt
The 'user.txt'file not found.
-----
-----
```

*Figure 4(test case2: user entered a wrong file names)*

1. Add product.
2. Place an item on sale.
3. Update product.
4. Add a new user.
5. Update user.
6. Display all users.
7. List products.
8. List shoppers.
9. Add product to the basket.
10. Display basket.
11. Update basket.
12. Place order.
13. Execute order.
14. Save products to a file.
15. Save users to a text file.
16. Exit

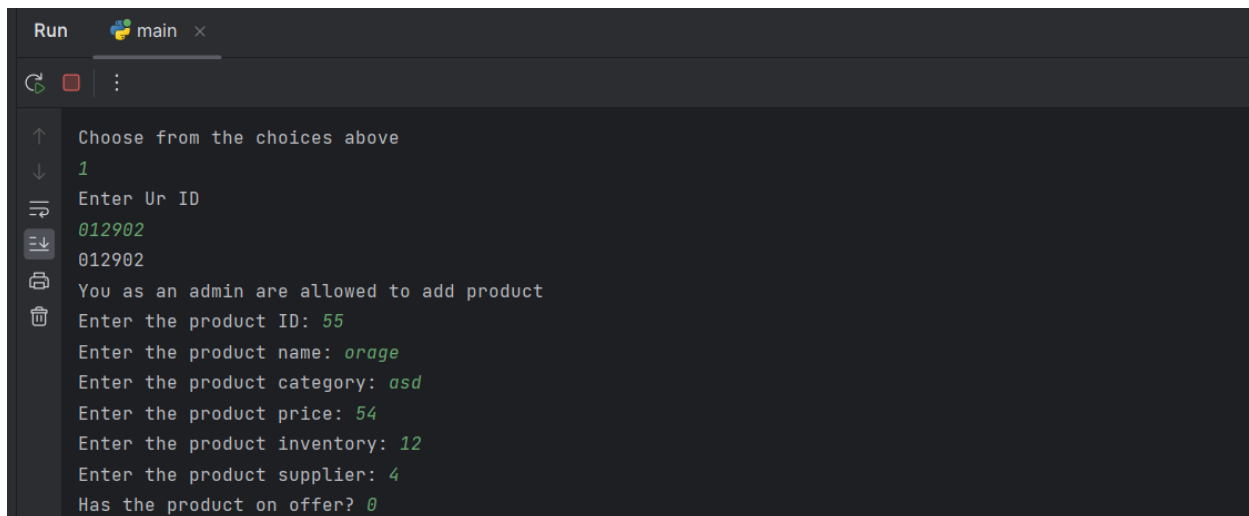
*Figure 5(users' menu)*

```
Choose from the choices above
1
Enter Ur ID
012900
012900
The user is noy found, try again.
```

*Figure 6(test case for choice 1: if the users.txt file dose not contains this id)*

```
Choose from the choices above
1
Enter Ur ID
012901
012901
You as a shopper are not allowed to add product
```

*Figure 7(test case for choice 1: if the shopper is trying to add product)*



The screenshot shows a terminal window with a dark background. At the top, there's a tab labeled 'main' and a 'Run' button. The terminal output is as follows:

```
Choose from the choices above
1
Enter Ur ID
012902
012902
You as an admin are allowed to add product
Enter the product ID: 55
Enter the product name: orange
Enter the product category: asd
Enter the product price: 54
Enter the product inventory: 12
Enter the product supplier: 4
Has the product on offer? 0
```

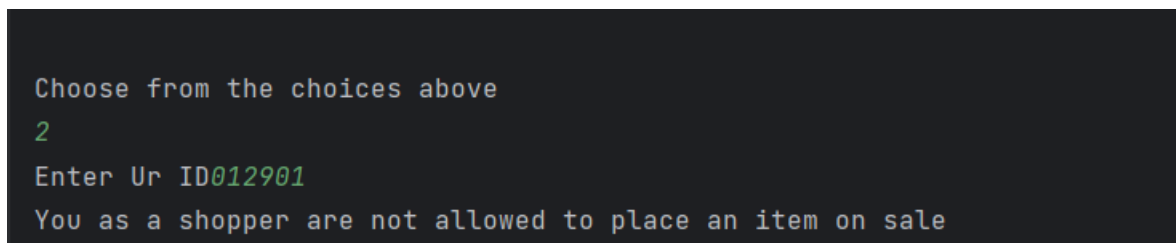
Figure 8((test case for choice 1: if the admin is trying to add product)



The screenshot shows a terminal window with a dark background. The terminal output is as follows:

```
Choose from the choices above
2
Enter Ur ID012900
The user is not found, try again.
```

Figure 9(test case for choice 2: if the users.txt file dose not contains this id)



The screenshot shows a terminal window with a dark background. The terminal output is as follows:

```
Choose from the choices above
2
Enter Ur ID012901
You as a shopper are not allowed to place an item on sale
```

Figure 10(test case for choice 2: if the shopper is trying to place an item on sale)



```
Choose from the choices above
2
Enter Ur ID012902
You as an admin are allowed to place an item on sale
Enter the item ID you wanna place on sale: 5678
The item you are trying to put on sale is not found.
```

Figure 11 (test case for choice 2: if the admin is trying to place an item on sale, but this item is not in the products.txt file)

```
Choose from the choices above
2
Enter Ur ID012902
You as an admin are allowed to place an item on sale
Enter the item ID you wanna place on sale: 56789
Enter the offer price54
Enter year: 2023
Enter month: 10
Enter day: 1
```

Figure 12(test case for choice 2: if the admin is trying to place an item on sale)

```
Choose from the choices above
3
Enter Ur ID012900
```

Figure 13(test case for choice 3: if the users.txt file dose not contains this id)

```
Choose from the choices above
3
Enter Ur ID012901
You as a shopper are not allowed to update some product
```

Figure 14(test case for choice 3: if the shopper is trying Update product)

```
Choose from the choices above
3
Enter Ur ID012902
You as an admin are allowed to update some product
Enter the product ID you wanna update: 12345
1. Product Name
2. Product Category
3. Product Price
4. Product Inventory
5. Product Supplier
6. Add an Offer
7. Finish updating product
Select the field you wanna update: 1
Enter the new name for the productlemon
1. Product Name
2. Product Category
3. Product Price
4. Product Inventory
5. Product Supplier
6. Add an Offer
7. Finish updating product
Select the field you wanna update: 2
Enter the new category for the productjuice
```

```
1. Product Name
2. Product Category
3. Product Price
4. Product Inventory
5. Product Supplier
6. Add an Offer
7. Finish updating product
Select the field you wanna update: 2
Enter the new category for the productjuice
1. Product Name
2. Product Category
3. Product Price
4. Product Inventory
5. Product Supplier
6. Add an Offer
7. Finish updating product
Select the field you wanna update: 3
Enter the new price for the product45
Enter the new price for the product45
1. Product Name
2. Product Category
3. Product Price
4. Product Inventory
5. Product Supplier
6. Add an Offer
7. Finish updating product
Select the field you wanna update: 4
Enter the new inventory for the product5
1. Product Name
2. Product Category
3. Product Price
4. Product Inventory
5. Product Supplier
6. Add an Offer
7. Finish updating product
Select the field you wanna update: 6
Enter the offer price12
Enter year: 2023
Enter month: 5
Enter day: 7
```

Figure 15(test case for choice 3: if the admin is updating the product in different fields)

```
Choose from the choices above
```

```
4
```

```
Enter Ur ID
```

```
0129005
```

*Figure 16(test case for choice 4: if the users.txt file dose not contains this id)*

```
Choose from the choices above
```

```
4
```

```
Enter Ur ID
```

```
012901
```

```
You as a shopper are not allowed to add a new user
```

*Figure 17(test case for choice 4: if the shopper is trying to Add a new user)*

```
Choose from the choices above
```

```
4
```

```
Enter Ur ID
```

```
012902
```

```
You as an admin are allowed to add a new user
```

```
Enter the user ID: 98642
```

```
Enter the user name: Ahmad
```

```
Enter year: 2002
```

```
Enter month: 5
```

```
Enter day: 1
```

```
Enter the role for the user: 1
```

```
Enter which the user is active or not: 1
```

*Figure 18(test case for choice 4: if the admin is trying to Add a new user)*

```
Choose from the choices above
5
Enter Ur ID01236
The user is not found, try again.
```

Figure 19(test case for choice 5: if the users.txt file does not contain this id)

```
Choose from the choices above
5
Enter Ur ID012901
You as a shopper are not allowed to update some user
```

Figure 20(test case for choice 5: if the shopper is trying to Updating user)

```
Enter Ur ID012902
You as an admin are allowed to update some user
Enter the user ID you want to update 012904
1. User Name
2. Date of Birth
3. Update Role
4. Active Status
5. Update Basket
6. Update the Order
7. Finish updating user
Select the field you want to update: 1
Enter the new user name: leia
1. User Name
2. Date of Birth
3. Update Role
4. Active Status
5. Update Basket
6. Update the Order
7. Finish updating user
```

```
7. Finish updating user
Select the field you want to update: 2
Enter year: 200
Enter month: 5
Enter day: 4
1. User Name
2. Date of Birth
3. Update Role
4. Active Status
5. Update Basket
6. Update the Order
7. Finish updating user
Select the field you want to update: 3
Enter the new role for the user: 1
1. User Name
2. Date of Birth
3. Update Role
4. Active Status
5. Update Basket
6. Update the Order
7. Finish updating user
Select the field you want to update: 4
Enter the new active status (True/False): false
```

```
Enter the new active status (True/False): false
1. User Name
2. Date of Birth
3. Update Role
4. Active Status
5. Update Basket
6. Update the Order
7. Finish updating user
Select the field you want to update: 5
Current Basket: {'010891': '10', '110242': '3'}
Enter the item id to add to the basket: 45678
Enter the quantity: 4
Basket updated successfully.
1. User Name
2. Date of Birth
3. Update Role
4. Active Status
5. Update Basket
6. Update the Order
7. Finish updating user
Select the field you want to update: 6
Enter the new order status: 1
```

Select the field you want to update: 6

Enter the new order status: 1

1. User Name

2. Date of Birth

3. Update Role

4. Active Status

5. Update Basket

6. Update the Order

7. Finish updating user

Select the field you want to update: 7

*Figure 21(test case for choice 5: if the admin is trying to updating user)*

```
Choose from the choices above
6
Enter Ur ID012
The user is not found, try again.
```

Figure 22(test case for choice 6: if the users.txt file does not contain this id)

```
Choose from the choices above
6
Enter Ur ID012901
You as a shopper are not allowed to .....
```

Figure 23(test case for choice 6: if the shopper is trying to Display all users)

```
Choose from the choices above
6
Enter Ur ID012902
You as an admin are allowed to .....

Shopper ID: 012901
Shopper Name: Ahmad Hussam
Date of Birth: 19/1/1896
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No

Shopper ID: 012902
Shopper Name: Ali Ahmad
Date of Birth: 3/1/1987
Active: No
Basket: {'99887': '3', '110272': '3'}
Order: No

Shopper ID: 012903
Shopper Name: omar Ossama
Date of Birth: 10/6/1999
Active: No
```

Figure 24(test case for choice 6: if the admin is trying to Display all users)

It's printed all users correctly.



```
Choose from the choices above
7
You are allowed to print list of products
1. List all Products.
2. List products with offers.
3. List product according its category.
4. List products according some name.
5. Finish viewing products.
Choose from the above choices:1

Product ID: 56789
Product Name: Apple
Product Category: juice
Price: 4
Inventory: 350 items
Supplier: xyz
Has an Offer?: 0

Product ID: 12345
Product Name: Banana
Product Category: smoothie
Price: 2
Inventory: 250 items
Supplier: abc
```

*Figure 25(test case for choice 7: if the admin or shopper is trying to print List of all products)*

It's printed the list of all products correctly.

```
You are allowed to print list of products
1. List all Products.
2. List products with offers.
3. List product according its category.
4. List products according some name.
5. Finish viewing products.
Choose from the above choices:2
Product ID: 12345
Product Name: Banana
Product Category: smoothie
Price: 2
Inventory: 250 items
Supplier: abc
Has an Offer?: 1
Product ID: 67890
Product Name: Strawberry
Product Category: yogurt
Price: 5
Inventory: 150 items
Supplier: mno
Has an Offer?: 1
Product ID: 98765
Product Name: Grapes
Product Category: snack
Price: 4
```

Figure 26(test case for choice 7: if the admin or shopper is trying to print List of all products with offers)

```
You are allowed to print list of products
1. List all Products.
2. List products with offers.
3. List product according its category.
4. List products according some name.
5. Finish viewing products.
Choose from the above choices:3
Enter some category: sd
You are allowed to print list of products
1. List all Products.
2. List products with offers.
3. List product according its category.
4. List products according some name.
5. Finish viewing products.
Choose from the above choices:4
Enter some name: Apple
Product ID: 56789
Product Name: Apple
Product Category: juice
Price: 4
Inventory: 350 items
Supplier: xyz
Has an Offer?: 0
```

Figure 27(test case for choice 7: if the admin or shopper is trying to print List of all products according its category)

```
Enter some category: sa
You are allowed to print list of products
1. List all Products.
2. List products with offers.
3. List product according its category.
4. List products according some name.
5. Finish viewing products.
Choose from the above choices:4
Enter some name: Apple
Product ID: 56789
Product Name: Apple
Product Category: juice
Price: 4
Inventory: 350 items
Supplier: xyz
Has an Offer?: 0
You are allowed to print list of products
1. List all Products.
2. List products with offers.
3. List product according its category.
4. List products according some name.
5. Finish viewing products.
Choose from the above choices:5
```

Figure 28(test case for choice 7: if the admin or shopper is trying to print List of all products according some name and when choice 5 was chosen it's finished)

```
Choose from the choices above
8
Enter Ur ID0123
The user is noy found, try again.
```

Figure 29(test case for choice 8: if the users.txt file dose not contains this id)

```
Choose from the choices above
8
Enter Ur ID012901
You as a shopper are not allowed to list shoppers
```

Figure 30(test case for choice 8: if the shopper is trying to print List of shoppers)

```
Choose from the choices above
8
Enter Ur ID012902
You as an admin are allowed to list shoppers
1. List all shoppers:
2. List shoppers with items in the basket:
3. List shoppers which have unprocessed orders:
4. Finish viewing the shoppers.

enter your choice number1
Shopper ID: 012901
Shopper Name: Ahmad Hussam
Date of Birth: 19/1/1896
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No
Shopper ID: 012903
Shopper Name: omar Ossama
Date of Birth: 10/6/1999
Active: No
Basket: {'11223': '6', '110282': '3'}
Order: No
Shopper ID: 012906
Shopper Name: Sarah Johnson
```

*Figure 31(test case for choice 8: if the admin is trying to print List of all shoppers)*

It's printed the list of all shoppers correctly.

```
enter your choice number2
Shopper ID: 012901
Shopper Name: Ahmad Hussam
Date of Birth: 19/1/1896
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No
Shopper ID: 012903
Shopper Name: omar Ossama
Date of Birth: 10/6/1999
Active: No
Basket: {'11223': '6', '110282': '3'}
Order: No
Shopper ID: 012906
Shopper Name: Sarah Johnson
Date of Birth: 8/15/1985
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No
Shopper ID: 012909
Shopper Name: Leen Wilson
Date of Birth: 9/1/1982
Active: No
Basket: {'98765': '15', '110234': '5'}
```

*Figure 32(test case for choice 8: if the admin is trying to print List of shoppers with items in the basket)*

It's printed the list of all shoppers with items in the basket correctly.

```
enter your choice number3
Shopper ID: 012901
Shopper Name: Ahmad Hussam
Date of Birth: 19/1/1896
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No
Shopper ID: 012903
Shopper Name: omar Ossama
Date of Birth: 10/6/1999
Active: No
Basket: {'11223': '6', '110282': '3'}
Order: No
Shopper ID: 012906
Shopper Name: Sarah Johnson
Date of Birth: 8/15/1985
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No
Shopper ID: 012909
Shopper Name: Leen Wilson
Date of Birth: 9/1/1982
Active: No
Basket: {'98765': '15', '110234': '5'}
```

Figure 33(test case for choice 8: if the admin is trying to print List of List of shoppers which have unprocessed orders)

It's printed the list of all List of shoppers which have unprocessed correctly.

```
enter your choice number4
```

Figure 34(test case for choice 8: if the admin is Finish viewing the shoppers)

```
Choose from the choices above
```

```
9
```

```
Enter Ur ID0123
```

Figure 35(test case for choice 9: if the users.txt file dose not contains this id)

```
Choose from the choices above
```

```
9
```

```
Enter Ur ID012902
```

```
You as an admin are not allowed to .....
```

Figure 36(test case for choice 9: if the admin is trying Add product to the basket)

```
Choose from the choices above
```

```
9
```

```
Enter Ur ID012901
```

```
You as a shopper are allowed to .....
```

```
Enter the product id to add to the basket:56789
```

```
Enter the number of items from this product:5
```

Figure 37( test case for choice 9: if the shopper is trying Add product to the basket)



```
Choose from the choices above
10
Enter Ur ID
012
The user is not found, try again.
```

*Figure 38(test case for choice 10: if the users.txt file does not contain this id)*

```
Choose from the choices above
10
Enter Ur ID
012902
You as an admin are not allowed to .....
```

*Figure 39(test case for choice 10: if the admin is trying to Display basket)*

Choose from the choices above

10

Enter Ur ID

012901

You as a shopper are allowed to .....

Product ID: 56789

Product Name: Apple

Product Category: juice

Price: 4

Inventory: 350 items

Supplier: xyz

Has an Offer?: 0

Product ID: 11223

Product Name: Blueberry

Product Category: muffin

Price: 8

Inventory: 120 items

Supplier: stu

Has an Offer?: 18

*Figure 40(test case for choice 10: if the shopper is trying to Display basket)*

```
Choose from the choices above
11
Enter Ur ID0123
The user is noy found, try again.
```

Figure 41(test case for choice 11: if the users.txt file dose not contains this id)

```
Choose from the choices above
11
Enter Ur ID012902
You as an admin are not allowed to .....
```

Figure 42(test case for choice 11: if the admin is trying to Update basket)

```
Choose from the choices above
11
Enter Ur ID012901
You as a shopper are allowed to .....
1. Remove all products from the basket.
2. Remove a specific product from the basket based on product id.
3. Change the number of items of a particular product in the basket based on product id.
4. Finish updating the basket.
enter your choice number1
Enter the shopper to remove the products from his basket. 012909
1. Remove all products from the basket.
2. Remove a specific product from the basket based on product id.
3. Change the number of items of a particular product in the basket based on product id.
4. Finish updating the basket.
enter your choice number2
Enter the user id to remove a product from his basket.012902
enter the product id to remove. 67890
1. Remove all products from the basket.
2. Remove a specific product from the basket based on product id.
3. Change the number of items of a particular product in the basket based on product id.
4. Finish updating the basket.
```

```
Choose from the choices above
11
Enter Ur ID012901
You as a shopper are allowed to .....
1. Remove all products from the basket.
2. Remove a specific product from the basket based on product id.
3. Change the number of items of a particular product in the basket based on product id.
4. Finish updating the basket.
```

Figure 43(test case for choice 11: if the shopper is trying to Update basket)

```
Choose from the choices above
12
Enter Ur ID012
The user is not found, try again.
```

Figure 44(test case for choice 12: if the users.txt file does not contain this id)

```
Choose from the choices above
12
Enter Ur ID012902
You as an admin are not allowed to .....
```

Figure 45(test case for choice 12: if the admin is trying to Place order)

```
Choose from the choices above
12
Enter Ur ID012901
You as a shopper are allowed to .....
Enter the shopper id to place his order.45678
```

Figure 46(test case for choice 12: if the shopper is trying to Place order)

```
Choose from the choices above
13
Enter Ur ID012
The user is noy found, try again.
```

Figure 47(test case for choice 13: if the shopper is trying to Update basket)

```
Choose from the choices above
13
Enter Ur ID012901
You as a shopper are not allowed to .....
```

Figure 48(test case for choice 13: if the shopper is trying to Execute order)

```
Choose from the choices above
13
Enter Ur ID012902
You as an admin are allowed to .....
Enter the user id to execute his order. 45678
```

Figure 49(test case for choice 13: if the admin is trying to Execute order)

```
updated_products.txt - Notepad
File Edit Format View Help
Product ID: 54321
Product Name: Mango
Product Category: shake
Price: 1
Inventory: 450 items
Supplier: def
Has an Offer?: 0

Product ID: 24680
Product Name: Pineapple
Product Category: juice
Price: 3
Inventory: 300 items
Supplier: ghi
Has an Offer?: 1
Offer Price: 6
Valid Until: 26/1/2023

Product ID: 13579
Product Name: Watermelon
Product Category: slices
Price: 7
Inventory: 200 items
Supplier: jkl
Has an Offer?: 0

Product ID: 99887
Product Name: Cherry
Product Category: jam
Price: 2
Inventory: 180 items
Supplier: vwx
Has an Offer?: 0

Product ID: 45678
Product Name: Kiwi
Product Category: fruit
Price: 4

Ln 60, Col 23    100%    Windows (CRLF)    UTF-8
```

```
updated_products.txt - Notepad
File Edit Format View Help

Product ID: 24680
Product Name: Pineapple
Product Category: juice
Price: 3
Inventory: 300 items
Supplier: ghi
Has an Offer?: 1
Offer Price: 6
Valid Until: 26/1/2023

Product ID: 13579
Product Name: Watermelon
Product Category: slices
Price: 7
Inventory: 200 items
Supplier: jkl
Has an Offer?: 0

Product ID: 99887
Product Name: Cherry
Product Category: jam
Price: 2
Inventory: 180 items
Supplier: vwx
Has an Offer?: 0

Product ID: 45678
Product Name: Kiwi
Product Category: fruit
Price: 4
Inventory: 280 items
Supplier: lmn
Has an Offer?: 1
Offer Price: 10
Valid Until: 30/1/2023

Ln 60, Col 23    100%    Windows (CRLF)    UTF-8
```

```
PythonProjects Version control main main.py User.py Shopper.py Product.py Admin.py
Run main
1. Display all users.
2. Add product.
3. Place an item on sale.
4. Update product.
5. Add a new user.
6. Update user.
7. List products.
8. List shoppers.
9. Add product to the basket.
10. Display basket.
11. Update basket.
12. Place order.
13. Execute order.
14. Save products to a file.
15. Save users to a text file.
16. Exit

Choose from the choices above
14
Enter Ur ID:12982
You as an admin are allowed to save products to a file.
Enter the file name you want to save the products' information on: updated_products.txt
Product information saved to 'updated_products.txt'
1. Add product.
2. Place an item on sale.
3. Update product.
4. Add a new user.
5. Update user.
6. Display all users.
7. List products.
8. List shoppers.
9. Add product to the basket.
10. Display basket.
11. Update basket.
```

Figure 50(test case for choice 14: save products on file)

```
updated_users.txt - Notepad
File Edit Format View Help
Shopper ID: 012901
Shopper Name: Ahmad Hussam
Date of Birth: 19/1/1896
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No

Shopper ID: 012902
Shopper Name: Ali Ahmad
Date of Birth: 3/1/1987
Active: No
Basket: {'99887': '3', '110272': '3'}
Order: No

Shopper ID: 012903
Shopper Name: omar Ossama
Date of Birth: 10/6/1999
Active: No
Basket: {'11223': '6', '110282': '3'}
Order: No

Shopper ID: 012904
Shopper Name: omar Amjad
Date of Birth: 10/8/1879
Active: No
Basket: {'010891': '10', '110242': '3'}
Order: No

Shopper ID: 012905
Shopper Name: Amal Ali
Date of Birth: 12/3/1878
Active: No
Basket: {'98765': '15', '110232': '3'}
Order: No

Shopper ID: 012906
Shopper Name: Sarah Johnson

```

```
updated_users.txt - Notepad
File Edit Format View Help
Shopper ID: 012905
Shopper Name: Amal Ali
Date of Birth: 12/3/1878
Active: No
Basket: {'98765': '15', '110232': '3'}
Order: No

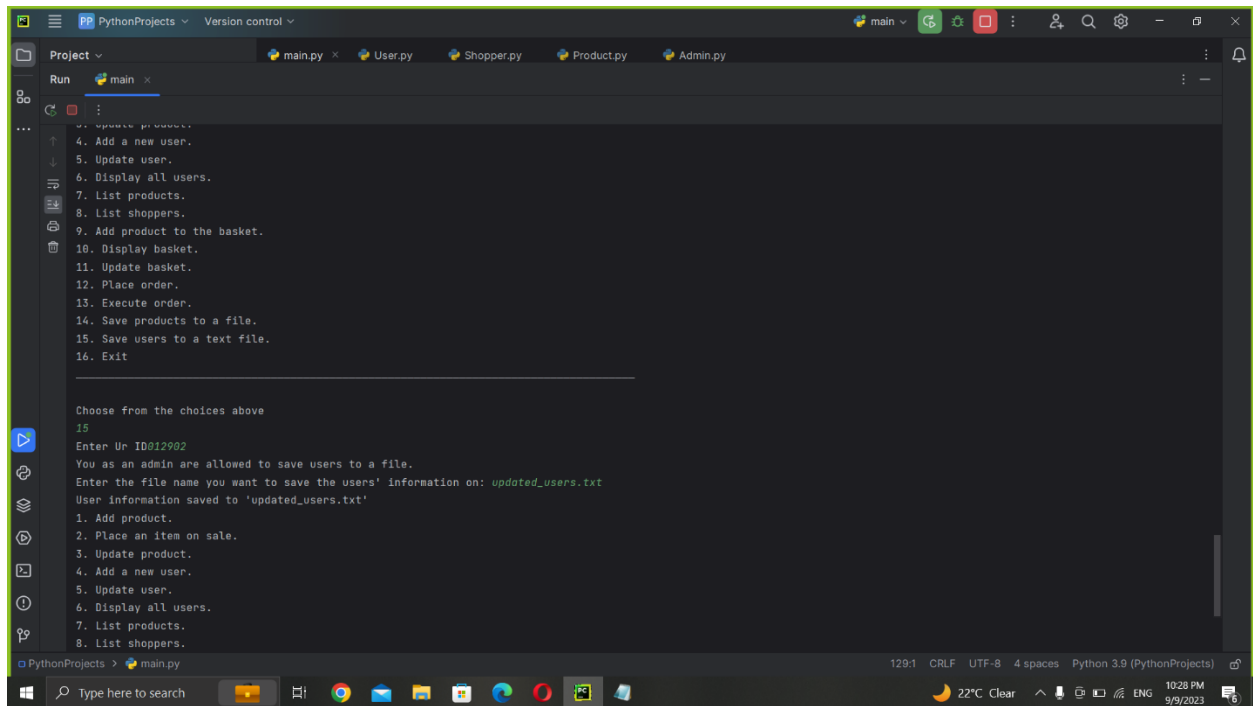
Shopper ID: 012906
Shopper Name: Sarah Johnson
Date of Birth: 8/15/1985
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No

Shopper ID: 012907
Shopper Name: Marah Brown
Date of Birth: 10/7/2000
Active: No
Basket: {'011223': '20', '050678': '8'}
Order: No

Shopper ID: 012908
Shopper Name: Leena Davis
Date of Birth: 3/12/1995
Active: No
Basket: {'030987': '8', '070123': '7'}
Order: No

Shopper ID: 012909
Shopper Name: Leen Wilson
Date of Birth: 9/1/1982
Active: No
Basket: {'98765': '15', '110234': '5'}
Order: No
```





```
PythonProjects Version control
main.py User.py Shopper.py Product.py Admin.py
Run main
1. Update product.
2. Place an item on sale.
3. Update product.
4. Add a new user.
5. Update user.
6. Display all users.
7. List products.
8. List shoppers.
9. Add product to the basket.
10. Display basket.
11. Update basket.
12. Place order.
13. Execute order.
14. Save products to a file.
15. Save users to a text file.
16. Exit

Choose from the choices above
15
Enter Ur ID:012902
You as an admin are allowed to save users to a file.
Enter the file name you want to save the users' information on: updated_users.txt
User information saved to 'updated_users.txt'
1. Add product.
2. Place an item on sale.
3. Update product.
4. Add a new user.
5. Update user.
6. Display all users.
7. List products.
8. List shoppers.
```

Figure 51(test case for choice 15: save users on file)



Figure 52(test case for choice 16: save users and products on file if user chose yes)

```
PythonProjects - Version control
updated_users.txt - Notepad
File Edit Format View Help
Shopper ID: 012901
Shopper Name: Ahmad Hussam
Date of Birth: 19/1/1896
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No

Shopper ID: 012902
Shopper Name: Ali Ahmad
Date of Birth: 3/1/1987
Active: No
Basket: {'99887': '3', '110272': '3'}
Order: No

Shopper ID: 012903
Shopper Name: omar Ossama
Date of Birth: 10/6/1999
Active: No
Basket: {'11223': '6', '110282': '3'}
Order: No

Shopper ID: 012904
Shopper Name: omar Amjad
Date of Birth: 10/8/1879
Active: No
Basket: {'010891': '10', '110242': '3'}
Order: No

Shopper ID: 012905
Shopper Name: Amal Ali
Date of Birth: 12/3/1878
Active: No
Basket: {'98765': '15', '110232': '3'}
Order: No

Process finished.
Ln 1, Col 1 100% Windows (CRLF) UTF-8
```

```
PythonProjects - Version control
updated_users.txt - Notepad
File Edit Format View Help
Basket: {'98765': '15', '110232': '3'}
Order: No

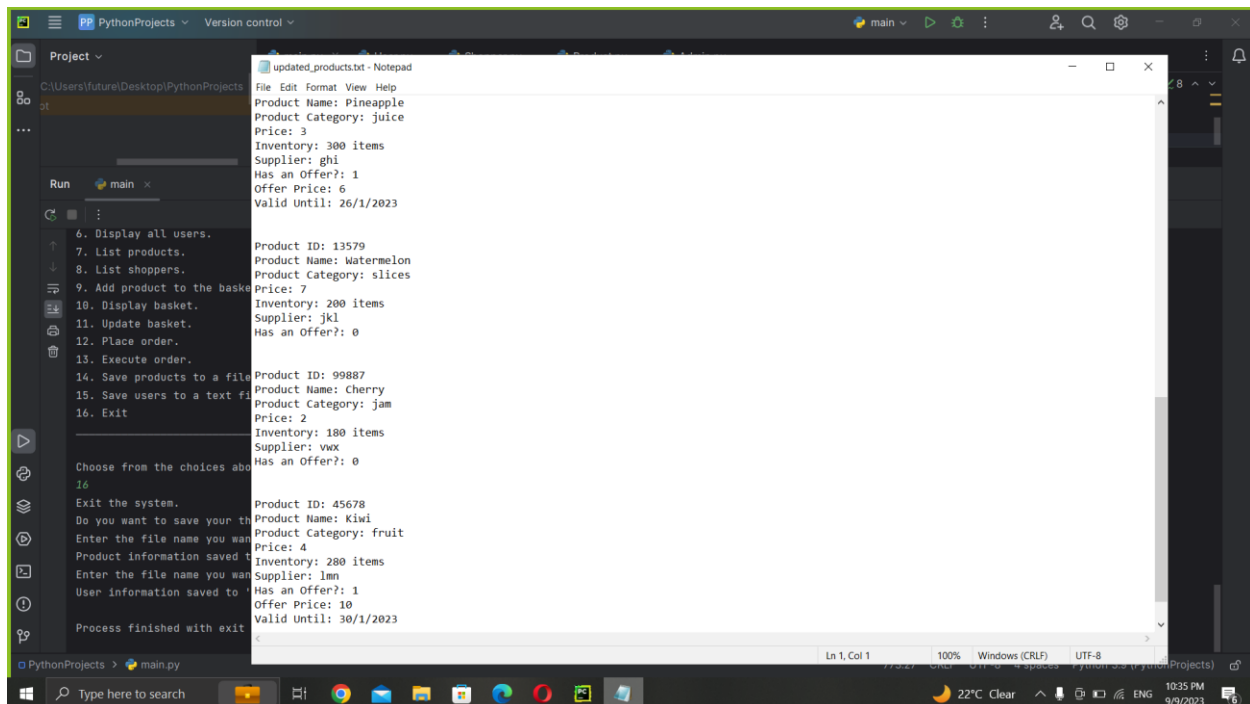
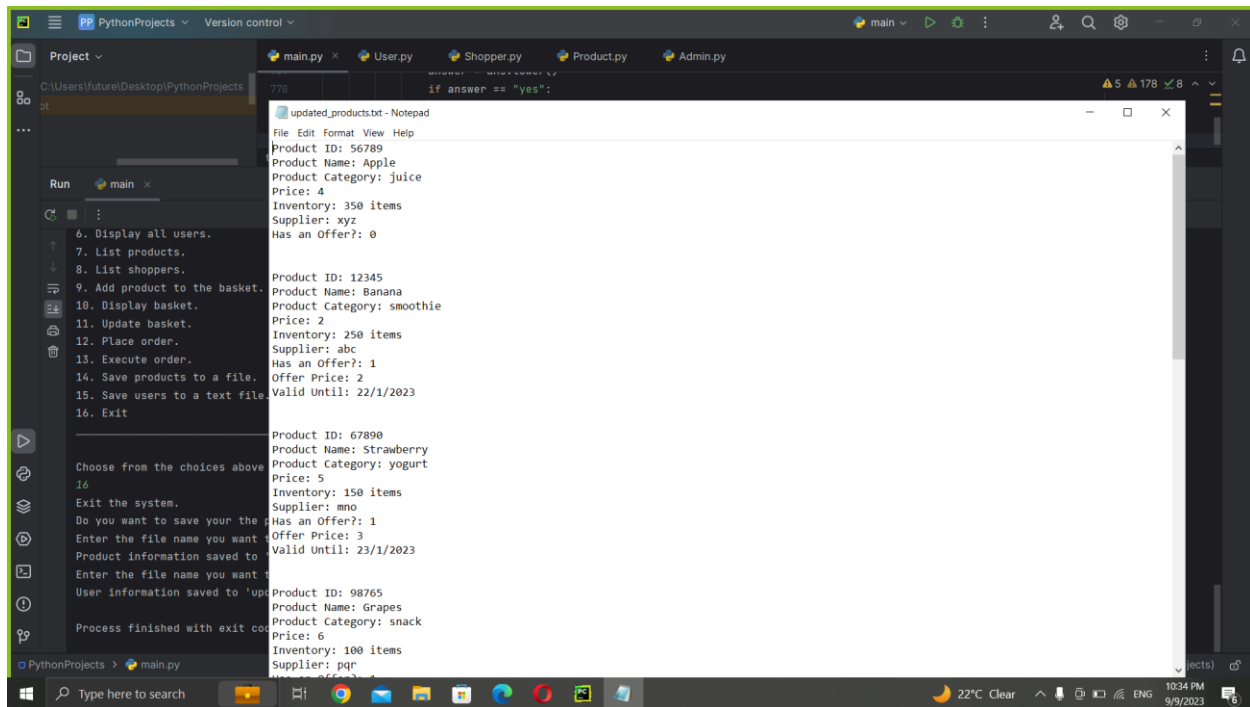
Shopper ID: 012906
Shopper Name: Sarah Johnson
Date of Birth: 8/15/1985
Active: No
Basket: {'56789': '15', '110232': '3'}
Order: No

Shopper ID: 012907
Shopper Name: Marah Brown
Date of Birth: 10/7/2000
Active: No
Basket: {'011223': '20', '050678': '8'}
Order: No

Shopper ID: 012908
Shopper Name: Leena Davis
Date of Birth: 3/12/1995
Active: No
Basket: {'030987': '8', '070123': '7'}
Order: No

Shopper ID: 012909
Shopper Name: Leen Wilson
Date of Birth: 9/1/1982
Active: No
Basket: {'98765': '15', '110234': '5'}
Order: No

Process finished.
Ln 1, Col 1 100% Windows (CRLF) UTF-8
```



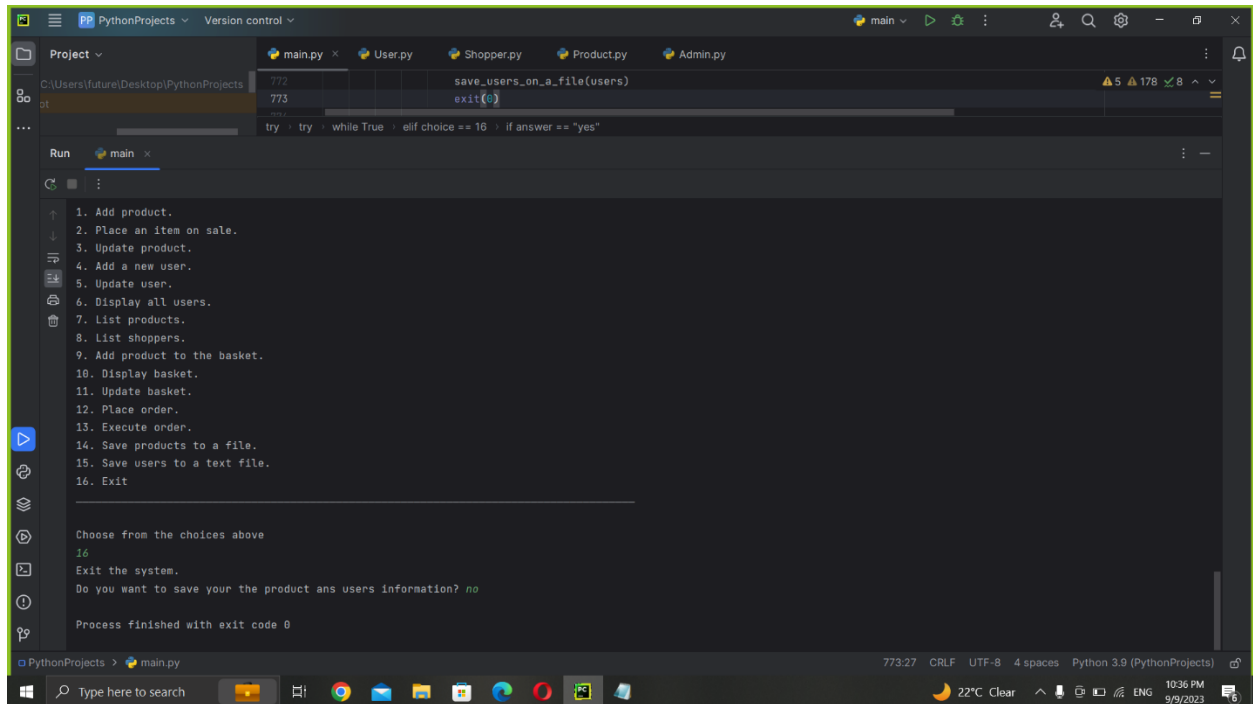


Figure 53(test case for choice 16: exit if user chose no)

```
while True:
    print("1. Add product.")
    print("2. Place an item on sale.")
    print("3. Update product.")
    print("4. Add a new user.")
    print("5. Update user.")
    print("6. Display all users.")
    print("7. List products.")
    print("8. List shoppers.")
    print("9. Add product to the basket.")
    print("10. Display basket.")
    print("11. Update basket.")
    print("12. Place order.")
    print("13. Execute order.")
    print("14. Save products to a file.")
    print("15. Save users to a text file.")
    print("16. Exit")
    print("_____")
    print()
    choice = int(input("Choose from the choices above\n"))
```

*Figure 54(menu)*

This menu will keep appear until the user choice exit.