

# Test Code Run1

```
Python 3.7.7 Shell
```

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```
File Edit Shell Debug Options Window Help  
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 10:41:24) [MSC v.1900 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\Users\FAST COMPUTER SERVIC\Documents\Api2\OOP project\A1_CS_19075_1.py  
First you have to make an account  
Kindly share some your basic informations!  
Enter your First name:Khadija  
Enter your Last name:Khadija  
Enter your email:Khad191919@gmail.com  
Write your address:streetXXXhouseXXX,Kharachi  
Enter your ID:E445  
Enter your phone number:923000000000  
  
your account has been made successfully  
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
Name: Khadija Khadija  
Email: Khad191919@gmail.com  
Phone number: 923000000000  
Address: streetXXXhouseXXX,Kharachi  
  
Please enter your ID for log in!  
  
Password:Ytr  
Incorrect password enter correct password!  
Try Again:E445  
Successfull Login
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:a

S.no      Products      Stock      Price_per_item      Barcode
*****
*****
1      CadburyCrunch      230      250      111
2      Hob Nob      123      120      112
3      Triscuit      45      70      113
4      Cream Wheat      67      540      222
5      Malt-O-Meal      123      450      223
6      Scotts Porage      456      230      224
7      Dunkin Donuts      356      345      333
8      Betty Crocker      456      780      334
9      Mars Mufin      367      235      335
10     AngelDelight      120      245      444
11     Magnolia      89      170      445
12     Selecta      34      115      446

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Choose what you want:!!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:b

Do you want to add CadburyCrunch in your cart enter the quantity, for no 00 press any key:5
Do you want to add Hob Nob in your cart enter the quantity, for no 00 press any key:6
Do you want to add Triscuit in your cart enter the quantity, for no 00 press any key:7
Do you want to add Cream Wheat in your cart enter the quantity, for no 00 press any key:6
Do you want to add Malt-O-Meal in your cart enter the quantity, for no 00 press any key:5
Do you want to add Scotts Porage your cart enter the quantity, for no 00 press any key:6
Do you want to add Dunkin Donuts your cart enter the quantity, for no 00 press any key:00
ok no problem
Do you want to add Betty Crocker your cart enter the quantity, for no 00 press any key:7
Do you want to add Mars Mufin your cart enter the quantity, for no 00 press any key:6
Do you want to add AngelDelight your cart enter the quantity, for no 00 press any key:5
Do you want to add Magnolia your cart enter the quantity, for no 00 press any key:6
Do you want to add Selecta your cart enter the quantity, for no 00 press any key:00
ok no problem

*****
Products in your cart added successfully
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
*****
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:d

***Your Cart***

S.no      Products                Stock  Price_per_item  Barcode
*****
1      CadburyCrunch            5      250              111
2      Hob Nob                   6      120              112
3      Triscuit                  7      70               113
4      Cream Wheat               6      540              222
5      Malt-O-Meal               5      450              223
6      Scotts Porage             6      230              224
7      Dunkin Donuts             0      345              333
8      Betty Crocker             7      780              334
9      Mars Mufin                6      235              335
10     AngelDelight              5      245              444
11     Magnolia                  6      170              445
12     Selecta                   0      115              446
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
Choose what you want:!)
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:c

How many products you want to remove:3
Enter the ID of Product: 1
111
Enter the ID of Product: 2
112
Enter the ID of Product: 3
446
*****
Product has been removed from your cart!
*****
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
*****
New cart after removing Products!
*****
S.no   Products          Stock  Price_per_item  Barcode
*****
1      Triscuit             7      70              113
2      Cream Wheat          6      540             222
3      Malt-O-Meal          5      450             223
4      Scotts Porage         6      230             224
5      Dunkin Donuts         0      345             333
6      Betty Crocker         7      780             334
7      Mars Mufin            6      235             335
8      AngelDelight          5      245             444
9      Magnolia             6      170             445
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
Choose what you want:!)
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:f
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

You didn't buy any thing from this shop...
Do you want to purchase some thing from this shop?[Y/N]
Y
***Your Cart***

S.no    Products                Stock  Price_per_item  Barcode
-----
1       CadburyCrunch              5      250             111
2       Hob Nob                    6      120             112
3       Triscuit                   7       70             113
4       Cream Wheat                6      540             222
5       Malt-O-Meal                 5      450             223
6       Scotts Porage               6      230             224
7       Dunkin Donuts               0      345             333
8       Betty Crocker               7      780             334
9       Mars Mufin                  6      235             335
10      AngelDelight                 5      245             444
11      Magnolia                    6      170             445
12      Selecta                     0      115             446

How many products you want to buy:1
Enter the BarCode of Product: 1
Enter the BarCode of the product you want to buy:335
Enter the quantity you want to purchase
3
Thank You For Shopping
***Your Shopping History is given below***
S.no    Products                Price_per_item
-----
1       Mars Mufin                 705
Your total bill is Rs. 705
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
Choose what you want:!)
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:e

S.no    Products                Price_per_item
-----
1       Mars Mufin                 705
Your total bill is Rs. 705
```

```
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:g

You are now logout!
>>>
```

Activate Windows  
Go to Settings to activate Windows.

## Test Code Run2

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 10:41:24) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\FAST COMPUTER SERVIC\Documents\Api2\OOP project\A1_CS_19075_1.py
First you have to make an account
Kindly share some your basic informations!
Enter your First name:Uzma
Enter your Last name:Aijaz
Enter your email:uzmaaijaz12@gmail.com
Write your address:streetXXXhouseXXXX,Karachi
Enter your ID:TY66
Enter your phone number:923560000000

your account has been made successfully
*****
Name: Uzma Aijaz
Email: uzmaaijaz12@gmail.com
Phone number: 923560000000
Address: streetXXXhouseXXXX,Karachi

Please enter your ID for log in!

Password:TY66
Successfull Login

Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:c
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

Your cart is empty! Add some thing in your cart!

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
Choose what you want:!)
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:e

S.no    Products    Price_per_item
*****
Your total bill is Rs. 0

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

Choose what you want:!)
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:f

You didn't buy any thing from this shop...
Do you want to purchase some thing from this shop?[Y/N]
N
Okay no Problem! Good Bye
***Your Shopping History is given below***
S.no    Products    Price_per_item
*****
Your total bill is Rs. 0
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
```

```
Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:d

***Your Cart***

Your cart is empty! Add some thing in your cart!

Go to main menu if you want to add somthing in your cart

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
[
You are now logout!
>>> |
```

## Test Code Run3

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Python 3.7.7 (tags/v3.7.7:d7c567b08f, Mar 10 2020, 10:41:24) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\FAST COMPUTER SERVIC\Documents\Api2\OOP project\A1_CS_19075_1.py
First you have to make an account
Kindly share some your basic informations!
Enter your First name:Zuhaira
Enter your Last name:AbdullahSiddiqui
Enter your email:zuhaira2345@gmail.com
Write your address:StreetXXXHouseXXX,Karachi
Enter your ID:JF567
Enter your phone number:920000000

your account has been made successfully
*****
Name: Zuhaira AbdullahSiddiqui
Email: zuhaira2345@gmail.com
Phone number: 920000000
Address: StreetXXXHouseXXX,Karachi

Please enter your ID for log in!

Password:2
Incorrect password enter correct password!
Try Again:e
Try Again:JF567
Successfull Login
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:c

Your cart is empty! Add some thing in your cart!

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:d
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

***Your Cart***

Your cart is empty! Add some thing in your cart!

Go to main menu if you want to add something in your cart

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
Choose what you want:))!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:b
```



```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
Do you want to add CadburyCrunch in your cart enter the quantity, for no 00 press any key:45
Do you want to add Hob Nob in your cart enter the quantity, for no 00 press any key:4
Do you want to add Triscuit in your cart enter the quantity, for no 00 press any key:5
Do you want to add Cream Wheat in your cart enter the quantity, for no 00 press any key:65
Do you want to add Malt-O-Meal in your cart enter the quantity, for no 00 press any key:66
Do you want to add Scotts Porage your cart enter the quantity, for no 00 press any key:55
Do you want to add Dunkin Donuts your cart enter the quantity, for no 00 press any key:667
Outof stock!
Do you want to add Betty Crocker your cart enter the quantity, for no 00 press any key:55
Do you want to add Mars Mufin your cart enter the quantity, for no 00 press any key:4
Do you want to add AngelDelight your cart enter the quantity, for no 00 press any key:44
Do you want to add Magnolia your cart enter the quantity, for no 00 press any key:3
Do you want to add Selecta your cart enter the quantity, for no 00 press any key:00
ok no problem

*****
Products in your cart added successfully

*****
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
Choose what you want:!)
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:f
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
You didn't buy any thing from this shop...
Do you want to purchase some thing from this shop?[Y/N]
Y
***Your Cart***

S.no    Products          Stock  Price_per_item  Barcode
*****
1       CadburyCrunch       45     250             111
2       Hob Nob              4      120             112
3       Triscuit             5       70             113
4       Cream Wheat         65     540             222
5       Malt-O-Meal         66     450             223
6       Scotts Porage        55     230             224
7       Dunkin Donuts        0      345             333
8       Betty Crocker        55     780             334
9       Mars Mufin           4      235             335
10      AngelDelight         44     245             444
11      Magnolia             3      170             445
12      Selecta              0      115             446

How many products you want to buy:3
Enter the BarCode of Product: 1
Enter the BarCode of the product you want to buy:333
Enter the quantity you want to purchase
56
The quantity of Dunkin Donuts is less than that you add in your cart
Enter the BarCode of Product: 2
Enter the BarCode of the product you want to buy:445
Enter the quantity you want to purchase
1
Enter the BarCode of Product: 3
Enter the BarCode of the product you want to buy:223
Enter the quantity you want to purchase
60
Thank You For Shopping
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

***Your Shopping History is given below***
S.no    Products    Price_per_item
*****
1       Magnolia    170
2       Malt-O-Meal  27000
Your total bill is Rs. 27170
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
Choose what you want:!!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:e

S.no    Products    Price_per_item
*****
1       Magnolia    170
2       Malt-O-Meal  27000
Your total bill is Rs. 27170
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
y
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help

Choose what you want:!!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:f

***Your Cart***

S.no    Products    Stock    Price_per_item    Barcode
*****
1       CadburyCrunch  45       250               111
2       Hob Nob       4        120               112
3       Triscuit      5        70                113
4       Cream Wheat  65       540               222
5       Malt-O-Meal  6        450               223
6       Scotts Porage 55       230               224
7       Dunkin Donuts 0        345               333
8       Betty Crocker 55       780               334
9       Mars Mufin    4        235               335
10      AngelDelight  44       245               444
11      Magnolia     2        170               445
12      Selecta      0        115               446
```

```
Python 3.7.7 Shell
File Edit Shell Debug Options Window Help
How many products you want to buy:2
Enter the BarCode of Product: 1
Enter the BarCode of the product you want to buy:111
Enter the quantity you want to purchase
23
Enter the BarCode of Product: 2
Enter the BarCode of the product you want to buy:444
Enter the quantity you want to purchase
3
Thank You For Shopping
***Your Shopping History is given below***
S.no    Products      Price_per_item
*****
1      Magnolia        170
2      Malt-O-Meal       27000
3      CadburyCrunch     5750
4      Angel Delight     735
Your total bill is Rs. 33655
Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
Choose what you want:!!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:e
```

```
S.no    Products      Price_per_item
*****
1      Magnolia        170
2      Malt-O-Meal       27000
3      CadburyCrunch     5750
4      Angel Delight     735
Your total bill is Rs. 33655

Do you want to go in main menu again? press y or Y, if you dont want to go in main menu and want to logout,
Press any key...
Y
Choose what you want:!!
*****
Select the option you want
*****
a.View list for products
b.Add product to your shopping cart
c.Remove product from your cart
d.View your cart
e.Checkout
f.View shopping history
g.Logout
Enter your choice:g

You are now logout!
>>> |
```

Activate  
Go to Sett

## Question 1:

### **Problem Description**

The problem arises while I was working in this project is that I was unable to associate classes by aggregation or composition, I was trying to use abstract class but the code messed up and I was unable to solve this. I tried to relate checkout class and shopping class with association, but my customer class raised error and did not recognize the instance variable, I tried to solve this issue and associate shopping class and Checkout class, but I failed... so I chose the simplest way... The second problem I was facing, add and remove the product. I was unable to take the simple route of add and remove of the product, the other problem which I faced to store removal product in another function, I tried many times and apply different adeptness to solve this problem but it did not sort out so I make its list in the same function and print it...

## Question 2

### **Distinguish feature**

Distinguish feature of my project is I thought implementation of class Shopping Cart... because I am asking the user each product quantity, one's want to add... And in the add Product function I use long method...

## Question 3

### **Flow of the Project**

The code executes from class customer takes input customer's information and save the information then allow the customer to login in menu, then menu showed to the user and then allow customer to choose the choices, when customer choose any choice the respective function was called which are defined with if and elif, and then works on respective choices and after the execution of the respective function ask the customer want to go in main menu or not. If customer wants, goes to the main menu by using 'y' or 'Y' and similarly choose another choice and go to the respective function, the different functions are defined in different classes which are interlinked to each other... if one's not want to go in main menu press any key and logout....

## Question 4

### **Most Challenging Part**

The most challenging part of my project which I was facing is to add and remove products from the cart and you will see I follow a very long route of coding.

## Question 5

### **New thing learnt in python**

The thing I say that I learnt new in is not especial because I follow the techniques which I learnt in the class like inheritance and exceptions overriding...

## Question 6

### **Future Expansion**

I want to expand my code with the most interesting application “GUI”, and using the associations in which I will have to get strong command...