

# **WALMART**

(save money live better)



**Submitted to**

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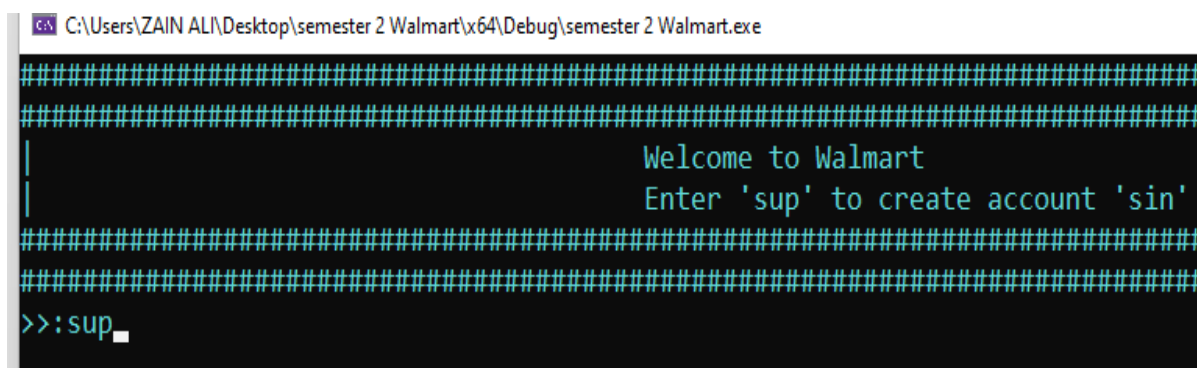
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# Introduction

Walmart is an E commerce Store where you can purchase anything .We are implementing it in C++ .We use OOP Concepts to complete our goal .We implement polymorphism , inhertence and encapsulation .We work with file handleing each and every detail is saved in filder named database in current directory of source and header files. Complete Data is Save in files And loaded when needed .If you print bill then it will be save ad txt file in foleder named database .It's Core functionalities are .

## ❖ Tip for testing

- Use username and password for user
  - @user
  - Pass
- User username and password for admin
  - @admin
  - Pass
- User can Sign up using keyword 'sup'.



```
C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\x64\Debug\semester 2 Walmart.exe
#####
#####
|                                     Welcome to Walmart
|                                     Enter 'sup' to create account 'sin'
#####
#####
>>:sup_
```

```
C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\x64\Debug\semester 2 Walmart.exe
Hello There!
You Want to Create User or Admin Account
'U' For User and 'A' For Admin
A
Enter user Name : @admin
Enter Password : pass
Enter Address : Lahore
Enter Gender M/F/O : M
Enter Phone : 123456789
Writing Data Successful
q_
```

- User can Sign in using keyword 'sin'.

```
C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\x64\Debug\semester 2 Walmart.exe
#####
#####
|                               Welcome to Walmart
|                               Enter 'sup' to create account 'sin' to sign in
#####
#####
>>:sin
```

- User can Add any product to card By entering product id.

```

#####
#                               Grocery
#####
#      ID |      Name |      Color |      Warranty Time
#      g04|    yougort |      Bad   |              4
#####
+  Cupon Discount      =====>    $      12
#####
+  RETAIL PRICE        =====>    $      5
#####

#####
#                               Grocery
#####
#      ID |      Name |      Color |      Warranty Time
#      g05|      Bun   |     Good   |              4
#####
+  Cupon Discount      =====>    $      12
#####
+  RETAIL PRICE        =====>    $      1
#####

#####

#####

Enter Id of Product TO Add Item to Cart
Enter VC to view cart
g05_

```

- User can View his cart using keyword 'VC'.

```

#####
#                               Grocery
#####
#   ID |      Name |      Color |      Warranty Time
#   g04|    yougort |      Bad   |          4
#####
+ Cupon Discount          =====> $          12
#####
+ RETAIL PRICE            =====> $          5
#####

#####
#                               Grocery
#####
#   ID |      Name |      Color |      Warranty Time
#   g05|      Bun   |     Good   |          4
#####
+ Cupon Discount          =====> $          12
#####
+ RETAIL PRICE            =====> $          1
#####

#####

#####

Enter Id of Product TO Add Item to Cart
Enter VC to view cart
g05
Added to cart
VC_

```

- User can print his bill using keyword 'bill' in cart section.

```
C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\x64
#####
          Cart
#####
Name of ProductBun
Id of Product is : g05
Coupon Discont is : 0
Retail Price is : 1

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
Grand Total is: 1
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

To create Bill Enter 'bill'
bill
bill bill created to quit enter 'q'
```

> This PC > Desktop > semester 2 Walmart > semester 2 Walmart > database

Name	Date modified	Type
@admin	28/06/2022 2:03 am	Text Documen
@user	28/06/2022 2:06 am	Text Documen
accounts	28/06/2022 2:06 am	Text Documen
afaq	26/06/2022 11:32 am	Text Documen
Bill@user.txt	28/06/2022 2:10 am	Text Documen

- Admin can also Sign and Sign up .

```

+ RETAIL PRICE          =====>    $          4
+-----+

#####
#                          Grocery
#####
#      ID |      Name |      Color |      Warranty Time
#      g04|    yougort |      Bad  |          4
#####
+ Cupon Discount          =====>    $          12
+-----+
+ RETAIL PRICE          =====>    $          5
+-----+

#####
#                          Grocery
#####
#      ID |      Name |      Color |      Warranty Time
#      g05|      Bun  |      Good  |          4
#####
+ Cupon Discount          =====>    $          12
+-----+
+ RETAIL PRICE          =====>    $          1
+-----+

#####

Hello There
1)TO Enter New Items Detail Enter ==>1
2)TO View Details Enter ==>2
3)TO Continue shopping Enter ==>3
4)TO Sign out Enter ==>4
5)TO exit now Enter ==>5

```

- Admin can See details of Any User Details by Entering User name And password of User.

```

C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\>
User Name is @user
Gender is M
User Address is lahore
Pone nummber is 123445678

```



- Admin can Add New Products.

```
C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\x64\Debug\semester 2 Walmart.e
Fro Electronics Enter 'elec' for Grocery Enter 'groc'
>>:elec_
```

```
C:\Users\ZAIN ALI\Desktop\semester 2 Walmart\x64\Debug\semester
Enter Product Name Of Product : Macbook 2
Macbook 2Enter Product Id : e06
Enter Product genere : Electronics
Enter Product Color : Grey
Enter Product price $: 400
Enter Product Warranty time : 1
Enter Product Name Of Product : q_
```

To quit Entering Data Enter **q**

## Methodology

- **Classes:**

Classes Used in this project are

- 1-Product
- 2-Account
- 3-Cart

## Inheretence

- **Inherited Classes:**

We Inherited Following classes from Base classes

- 1. Electronics
- 2. Grocery
- 3. Admin
- 4. User
- 5. Sign in
- 6. Sing up

## Polymorphism

- We have three basic classes and used polymorphism at 3 different places

- In Cart class

```
17 public:  
18     void displayCart(Account* const);  
19     void addToECart(Electronics* e);
```

- In Product class

```

33 //Pure Viurtual Funtion for calculation (
34 virtual void calculate_Cupon_Off()=0;
35

```

- In Account class

```

18 //Poly
19 virtual Account* account_log() const
20 {

```

## • Encapsulation:

- We Have encapsulated all the classes,
- so that we do not Allow the user to look our current classes

```

semester 2 Walmart
1  #include "Account.h"
2  #include "product.h"
3  #include "Electronics.h"
4  #include "Grocery.h"
5  #include "SignUp.h"
6  #include "Admin.h"
7  #include "User.h"
8  #include "SignIn.h"
9  #include "Cart.h"

```

- Driver:
- Main Function is Available in this cpp file named Driver.cpp

### **Programmed Code**

- It is Available in Zip file Named semester 2 Walmart
- Use Full screen mode for Better experience