

Topic : Online Market Store

Group no : MLB_PRO_15

Campus : Malabe

Submission Date :17/05/2022

We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

Registration No	Name	Contact Number
IT19037066	De Silva W A D S	0769054835
IT19145112	Karunarathne K Y	0774308504
IT21046520	Nipuna H K	0771803088

System Requirements for Online Market Store

- This system allows all users to look for online market store.
- Firstly, user can login to the system by providing their details such as user id and password.
- Any customer can sign up to become a member.
- User can view, update, and delete their user details.
- Admin can login by using admin name, contact number and email.
- Admin can view, update, and delete details.
- Once a customer filled the form, they can add their own information to the website.
- Customer can select any order available in the store.
- Customer can purchase and add to cart.
- Customer can update details.
- Customer can add items from the order list.
- Deliverers delivers orders.
- Customer can do their payments of order through the system as pay pal and credit card.
- User can add coupon details and change the total payment.
- Admin also needs to login to the system before do the activities.
- Allows account holders to track the order, view order details, get invoice in history.

Nouns/Verbs analysis

2)

Noun Analysis (Nouns are in red color)

- This system allows all users to look for online market store.
- Firstly, user can login to the system by providing their user details such as user id and password.
- Any customer can sign up and become a member.
- User can view, update, and delete their user details.
- Admin can login by using admin name, contact number and email.
- Admin can view, update, and delete details.
- Once a customer filled the form, they can add their own information to the website.
- Customer can select any order available in the store.
- Customer can purchase and add to cart.
- Customer can update details.
- Customer can add items from the order list.
- Deliverers delivers orders.
- Customer can do their payments of order through the system as pay pal and credit card.
- User can add coupon details and change the total payment.
- Admin also needs to login to the system before do the activities.
- Allows account holders to track the order, view order details, get invoice in history.

Verb Analysis (Verbs are in blue color)

- This system allows all users to look for online market store.
- Firstly, user can login to the system by providing their details such as user id and password.
- Any customer can sign up to become a member.
- User can view, update, and delete their user details.
- Admin can login by using admin name, contact number and email.
- Admin can view, update, and delete details.
- Once a customer filled the form, they can add their own information to the website.
- Customer can select any order available in the store.
- Customer can purchase and add to cart.
- Customer can update details.
- Customer can add items from the order list.
- Deliverers delivers orders.
- Customer can do their payments of order through the system as pay pal and credit card.
- User can add coupon details and change the total payment.
- Admin also needs to login to the system before do the activities.
- Allows account holders to track the order, view order details, get invoice in history.

Identified Classes using Noun Verb Analysis

Identified Classes:

- Admin
- User
- Customer
- Item
- Cart
- Order
- Payment
- History
- Delivery Information

Attributes:

- User ID
- Password
- Admin name
- Contact number
- Email

Out of scope:

- Pay pal
- Credit card
- Purchase

Redundant:

- User details
- Sign up

3) <u>CRC Cards for Online Market Store</u>

Admin	
Responsibilities	Collaborations
login to the system	
Verify user accounts	User
View User Accounts	
Search User	
Delete User Accounts	
logout	

Customer	
Responsibilities	Collaborations
Pay Total Amount	Payment
Get Customer Details	
Update Profile	

User		
Responsibilities	Responsibilities	
Account verification	Admin	
and Login to the system		
Create User Account		
Account Update		
View Account		
Account Delete		

Order	
Responsibilities	Collaborations
Add Item to the cart	Cart
Calculate Total Price	

Cart	
Responsibilities	Collaborations
Add Item	Item
View Cart Details	
Update Quantity	
Delete Cart	
Checkout	

Payment	
Responsibilities	Collaborations
Set Payment ID	
Calculate Total	
Amount	
Pay Refund Amount	
Get Payment Details	Customer, History

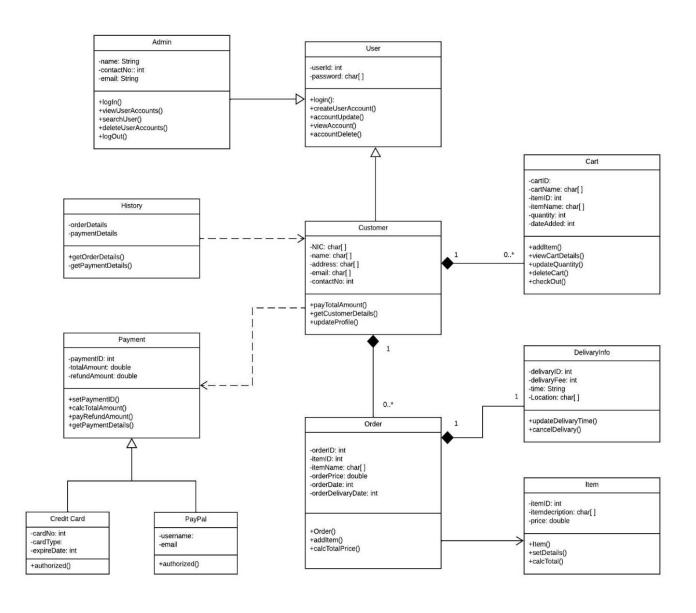
Delivery Information	
Responsibilities	Collaborations
Update Delivery time	
Cancel delivery	

History	
Responsibilities	Collaborations
Get Payment Details	Payment
Get Order Details	Order

Item	
Responsibilities	Collaborations
Set Details	
Calculate total Amount	Order

Exercise 1

Class Diagram for the Online Market Store

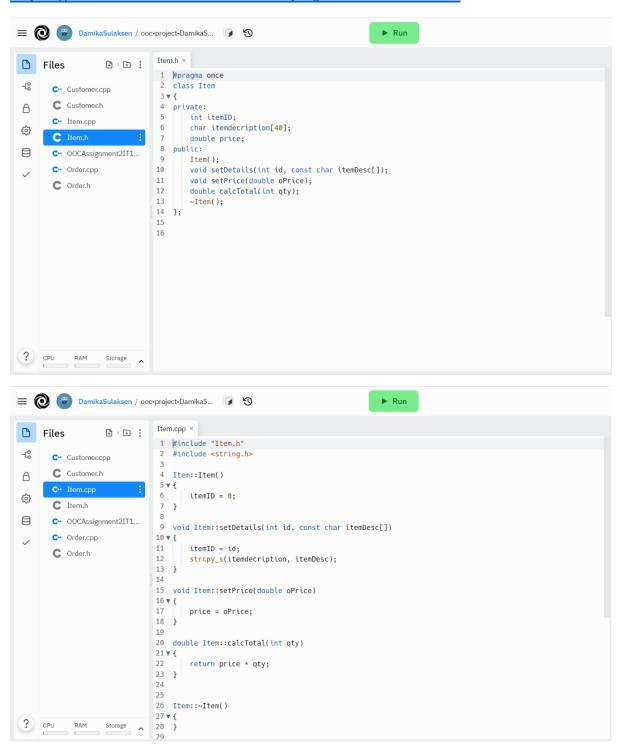


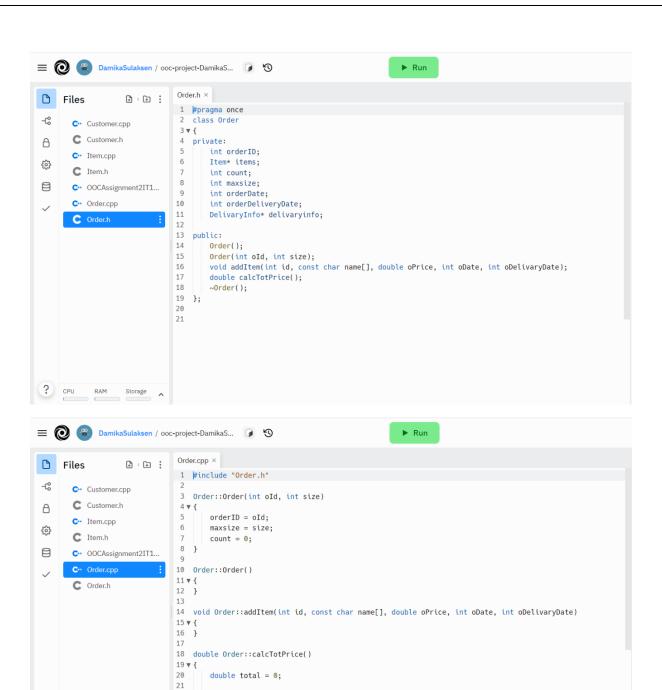
Exercise 2

Coding for the Classes in Class Diagram

IT19037066 - De Silva W.A.D.S.

https://github.com/IT1050-2022-Feb/ooc-project-DamikaSulaksen





22 23

24 }

27 ▼ {

^ 28 }

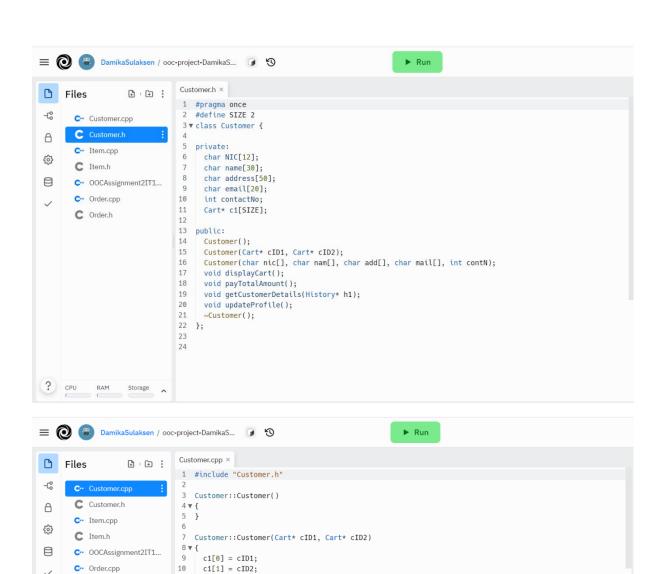
? CPU

RAM

Storage

return total;

26 Order::~Order()



13 Customer::Customer(char nic[], char nam[], char add[], char mail[], int contN)

11 }

14 **▼** {

16

17

18

19

20 } 21

23 **▼** {

25 **▼** 26

27

28 }

Storage

RAM

strcpy(NIC, nic);

strcpy(name, nam);

contactNo = contN;

22 void Customer::displayCart()

for (int i = 0; i < SIZE; i++)

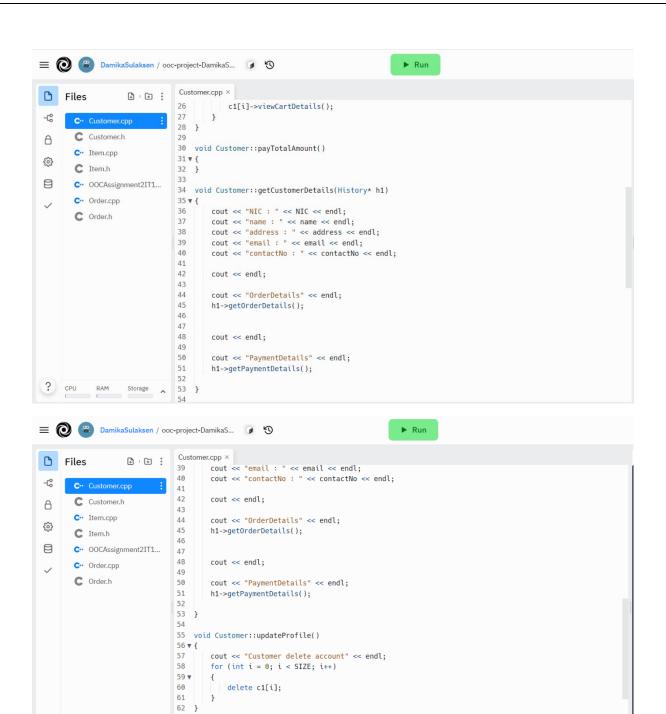
c1[i]->viewCartDetails();

strcpy(address, add);

strcpy(email, mail);

C Order.h

? CPU



63

^ 67

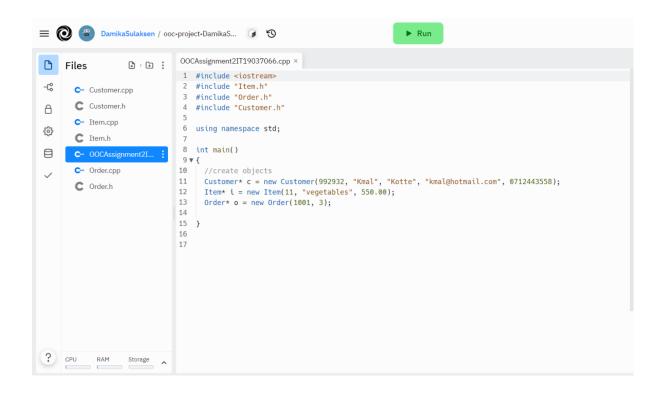
Storage

RAM

? CPU

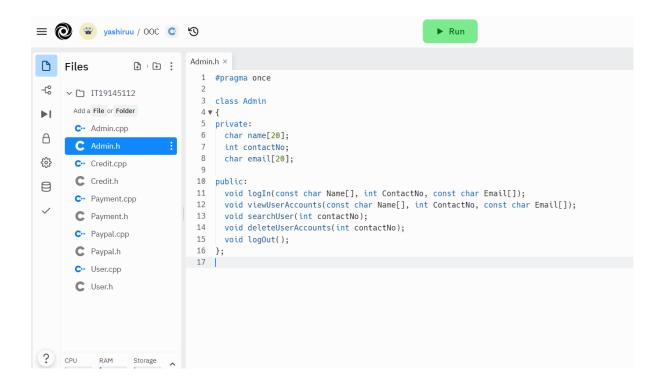
65 **▼** {
66 }

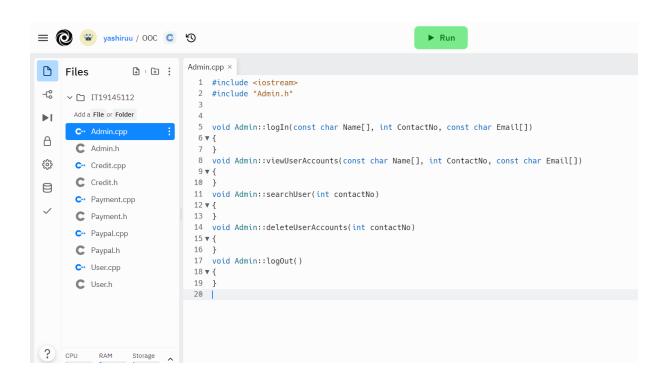
64 Customer::~Customer()

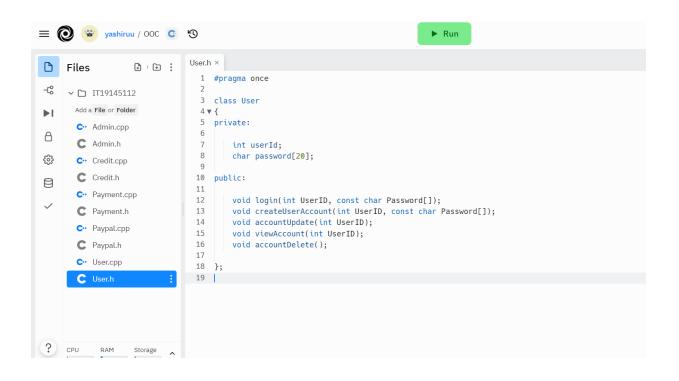


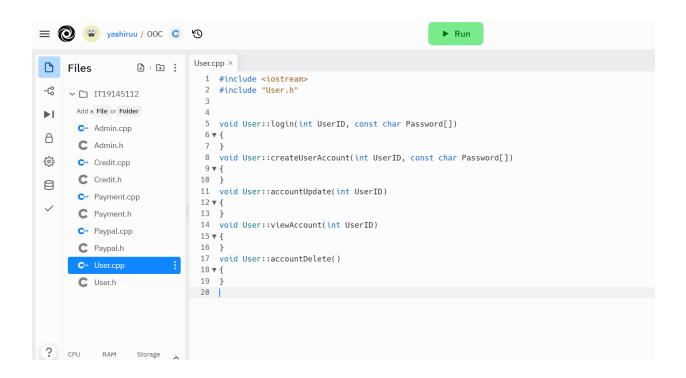
IT19145112 - Karunarathne K Y

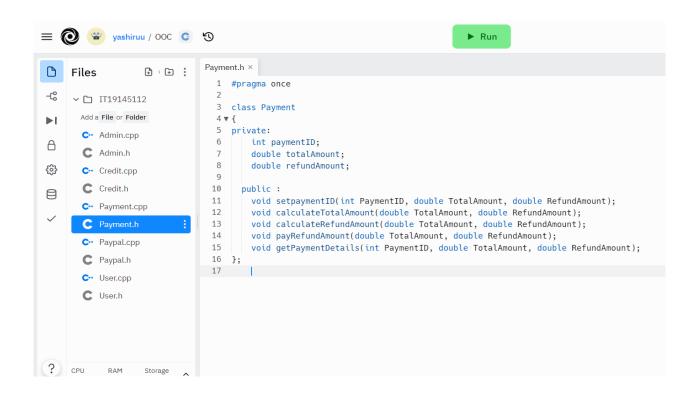
https://github.com/IT1050-2022-Feb/ooc-project-Kethmi1999

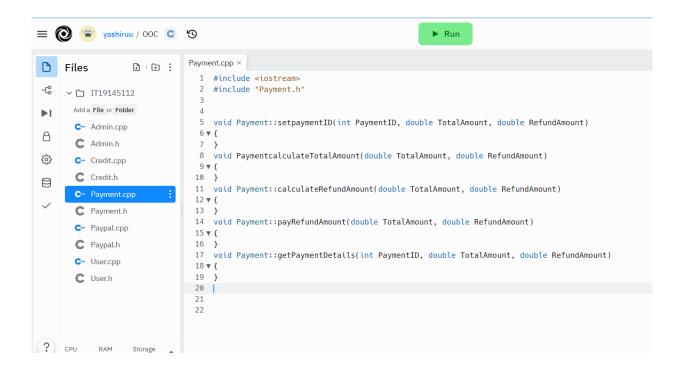


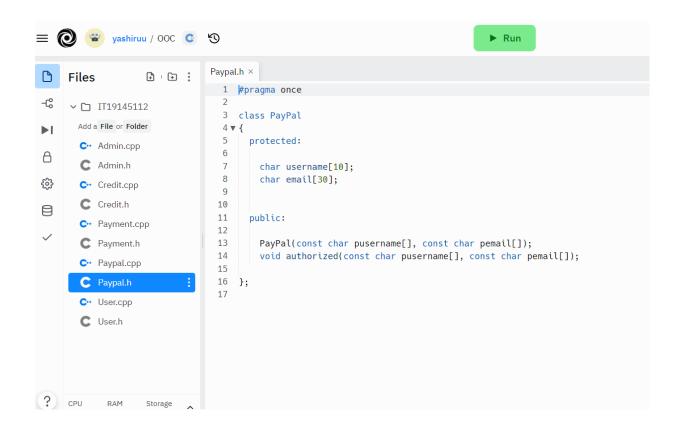


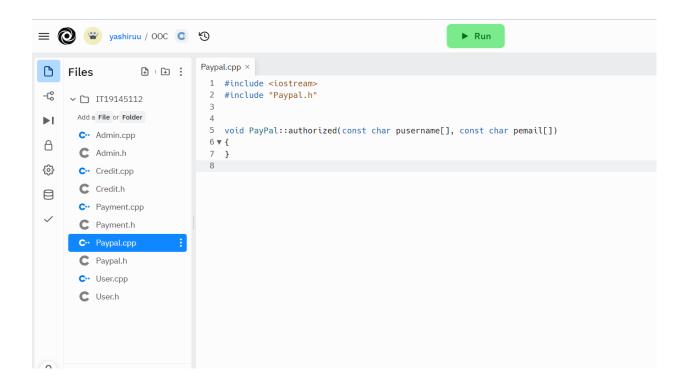


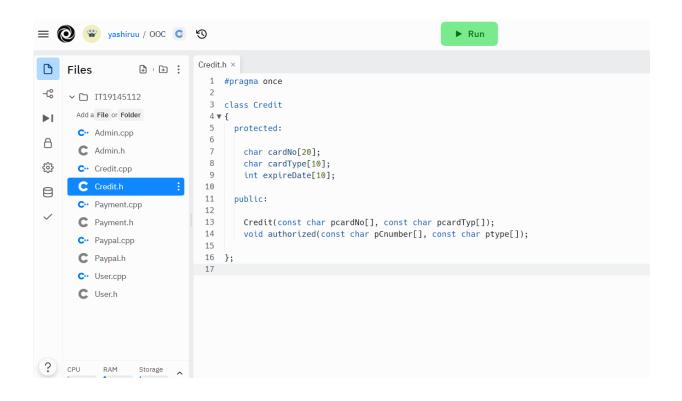


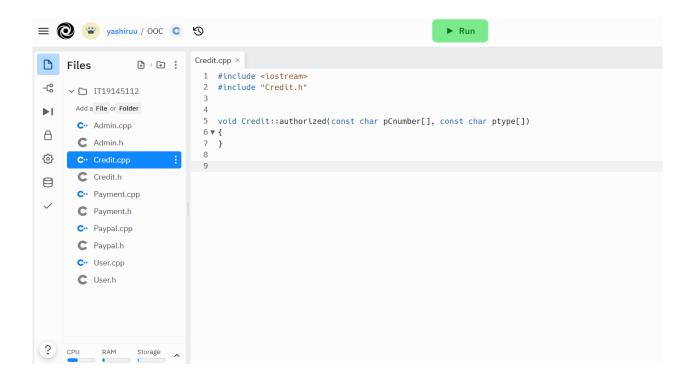












IT21046520 – Nipuna H K

156

157

cout<<"time : " << time<<endl;</pre>

cout<<"Location : " << Location<<endl;</pre>

https://github.com/IT1050-2022-Feb/ooc-project-it21046520

```
it21046520.cpp ×
158
159
       }
160
       void DelivaryInfo::updateDelivaryTime(){}
161
       void DelivaryInfo::cancelDelivary(){}
       DelivaryInfo::~DelivaryInfo(){
162 ▼
163
164
          cout<<"DelivaryInfo Invoice deleted"<<endl;</pre>
165
166
       }
167
168
169 ▼
       History::History(char oDetails[],char ptDetails[]){
170
         strcpy(orderDetails,oDetails);
171
        strcpy(paymentDetails,ptDetails);
172
       }
173 ▼
       void History::getOrderDetails(){
174
       cout<<"Details : "<< orderDetails<<endl;</pre>
175
       }
176 ▼
       void History::getPaymentDetails(){
        cout<<"Details : "<< paymentDetails<<endl;</pre>
177
178
       }
179
it21046520.cpp ×
128
129
      void Cart::updateQuantity(){}
130
131
      void Cart::deleteCart(){}
132
133
      void Cart::checkOut(){}
134
135 ▼ Cart::~Cart(){
136
       cout<<"Cart is deleted"<<endl;</pre>
137
138
139
140
141
142
       //DelivaryInfo class function declaration
      DelivaryInfo::DelivaryInfo(){}
143
144 ▼
      DelivaryInfo::DelivaryInfo(int dID,int dFee,char t[15],char place[25]){
145
146
         delivaryID=dID;
147
         delivaryFee=dFee;
148
         strcpy(time,t);
149
         strcpy(Location,place);
150
151
152 ▼
      void DelivaryInfo::displayDelivaryTime(){
153
154
         cout<< "delivaryID : " <<delivaryID <<endl;</pre>
155
          cout<< "delivaryFee : "<< delivaryFee<<endl;</pre>
```

```
it21046520.cpp ×
96
     return 0;
 97
98
    }
99
100
101
102
       //Cart class function declaration
103
      Cart::Cart(){}
104
105 ▼ Cart::Cart(int cID,char cName[],int itID,char itName[],int qunty,int dateAd){
106
        cartID = cID:
107
         strcpy(cartName,cName);
108
         itemID = itID;
109
         strcpy(itemName,itName);
110
         quantity=qunty;
111
         dateAdded= dateAd;
112
113
114
115
      void Cart::addItem(){}
116
117 ▼ void Cart::viewCartDetails(){
118
119
        cout<<endl;
120
         cout<<"CartID : "<<cartID<<endl;</pre>
121
         cout<<"cartName : "<< cartName<<endl;</pre>
122
         cout<<"itemID : "<< itemID<<endl;</pre>
123
         cout<<"itemName : "<< itemName<<endl;</pre>
124
         cout<<"quantity : "<<quantity <<endl;</pre>
         cout<<"dateAdded : "<<dateAdded <<endl;</pre>
125
126
         cout<<endl;
it21046520.cpp ×
02 };
 63
 64
 65
 66 ▼ int main() {
 67 ▼ /*Cart(int cID,char cName[],int itID,char itName[],int qunty,int dateAd);
 68
 69
      Order(int dID,int dFee,char t[],char place[]);
 70
 71 Customer(char nic[],char nam[],char add[],char mail[],int contN);
 72
 73
 74 */
 75
     Cart *cID1 = new Cart(01, "cart001",001, "pot", 2, 20);
 76
      Cart *cID2 = new Cart(01, "cart002",001, "brush", 2, 20);
 77
      Customer *cus = new Customer(cID1,cID2);
 78
      cus -> displayCart();
 79
      delete cus;
 80
 81
       printf("\n");
 82
 83
       Order *o1 = new Order(01,1000,"13.00","colombo");
 84
       delete o1;
 85
 86
       History *h = new History("this is order details","this is payment detauls");
 87
 88
         printf("\n");
 89
 90
 91
       Customer *cus1 = new Customer("12346986v", "pasindu", "colombo", "pw@gmail.com", 1030436);
 92
       cus1->getCustomerDetails(h);
```

```
it21046520.cpp ×
30 // DelivaryInfo class creation
31
32 ▼ class DelivaryInfo {
34 private:
    int delivaryID;
35
36
    int delivaryFee;
37
     char time[15];
38 char Location[25];
39
40 public:
DelivaryInfo();
DelivaryInfo(int dID,int dFee,char t[15],char place[25]);
void displayDelivaryTime();
void updateDelivaryTime();
45 void cancelDelivary();
46
    ~DelivaryInfo();
47 };
48
49
50 // History class creation
51
52 ▼ class History{
53 private:
54 char orderDetails[40];
55 char paymentDetails[40];
56
57 public:
58 History(char oDetails[],char ptDetails[]);
59 void getOrderDetails();
it21046520.cpp ×
 1 #include <iostream>
 2 #include <cstring>
 3 #define SIZE 2
 4
 5 using namespace std;
7 // Cart class create
 9 ▼ class Cart {
 10
11 private:
 12
     int cartID;
13 char cartName[20];
 14
      int itemID;
    char itemName[20];
 15
16
      int quantity;
    int dateAdded;
17
18
19 public:
 20
21
      Cart(int cID,char cName[],int itID,char itName[],int qunty,int dateAd);
22
    void addItem();
23
      void viewCartDetails();
24
      void updateQuantity();
25
      void deleteCart();
26
      void checkOut();
27
     ~Cart();
28 };
```