

[illegible]

```
public:
    Customer() {}

    Customer(string name, string number, string password, string address, string CNIC) {
        this->name = name;
        this->number = number;
        this->password = password;
        this->address = address;
        this->CNIC = CNIC;

        // File Handling for Customer

        fstream Customer("Customer.txt", ios::app);
        Customer << "NAME\t\t\tADDRESS\t\t\tNUMBER\t\t\tCNIC" << endl;

        Customer <<this->name << "\t\t\t" << this->address << "\t\t\t" <<this->number << "\t\t\t" << this->CNIC << endl;
    }
    // getter and setter
    void setName(string name) {
        this->name = name;
    }

    string getName() {
        return name;
    }

    void setNumber(string number) {
        this->number = number;
    }

    string getNumber() {
        return number;
    }
}
```

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void setAddress(string address) {
    this->address = address;
}

string getAddress() {
    return address;
}

void setCNIC(string CNIC) {
    this->CNIC = CNIC;
}

string getCNIC() {
    return CNIC;
}

void setPassword(string password) {
    this->password = password;
}

string getPassword() {
    return password;
}

// Condition to check whether customer is old or new
void cus()
{
    cout << endl << endl << endl;
    cout << "    If you are an old customer, press O or o" << endl;
    cout << "    If you are a new customer, press N or n" << endl;
    cout << "    Enter e to Exit from this segment" << endl;
    cout << "    Enter your choice: ";
    cin >> choice;
}

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{
    if (choice == 'O' || choice == 'o') {
        cout << "    Enter Your name: ";
        cin >> name;
        cout << "    Enter your verified Number: ";
        cin >> number;
        break;
    }
    else if (choice == 'N' || choice == 'n') {
        cout << "    Enter your Name: ";
        cin >> name;
        cout << "    Enter your Password: ";
        cin >> password;
        cout << "    Enter your CNIC without dashes: ";
        cin >> CNIC;
        cout << "    Enter your Address: ";
        cin.ignore();
        getline(cin, address);
        break;
    }
    else
    {
        cout << "    Invalid choice! Please try again." << endl;
        cout << "    Enter your choice: ";
        cin >> choice;
    }
}
};

```

```

class Products : public Shop
{
protected:
    double total_price;
    char choice;

public:
    virtual void shoppingProducts() = 0;
};
//***** MAKE UP *****

class MakeUp : public Products
{
public:
    void shoppingProducts() override
    {
        do {
            int item, quantity;
            total_price = 0.0; // Declare total_price here
            cout << "    Here are makeup details " << endl << endl;
            cout << "    (1) Foundation      : price => 2000.00" << endl;
            cout << "    (2) Lipstick       : price => 1500.00" << endl;
            cout << "    (3) Eyeshadow     : price => 1800.00" << endl;
            cout << "    (4) Mascara       : price => 1200.00" << endl;
            cout << "    Press 0 to exit" << endl;

            cout << "    Select an item to purchase: ";
            cin >> item;

            if (item == 0) {
                break;
            }

            cout << "    Enter quantity: ";
            cin >> quantity;
        } while (item != 0);
    }
}

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        switch (item) {
        case 1:
            total_price += quantity * 2000.0;
            break;
        case 2:
            total_price += quantity * 1500.0;
            break;
        case 3:
            total_price += quantity * 1800.0;
            break;
        case 4:
            total_price += quantity * 1200.0;
            break;
        default:
            cout << "    Invalid item selection!" << endl;
            break;
        }

        cout << "    Total Price: " << total_price << endl;

        cout << "    Do you want to purchase more? (Y/N): ";
        cin >> choice;
    } while (choice == 'Y' || choice == 'y');
}

};
//***** PERFUME *****
class Perfume : public Products {
public:
    void shoppingProducts() override
    {
        do {
            int item, quantity;
            total_price = 0.0; // Declare total_price here

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cout << "    Here are perfume details " << endl;
cout << "    (1) Chanel No. 5    : price => 3000.00" << endl;
cout << "    (2) Dior Sauvage    : price => 2500.00" << endl;
cout << "    (3) Gucci Bloom      : price => 2800.00" << endl;
cout << "    (4) Versace Eros     : price => 2200.00" << endl;
cout << "    Press 0 to exit" << endl;

cout << "    Select an item to purchase: ";
cin >> item;

if (item == 0)
{
    break;
}
cout << "    Enter quantity: ";
cin >> quantity;

switch (item) {
case 1:
    total_price += quantity * 3000.0;
    break;
case 2:
    total_price += quantity * 2500.0;
    break;
case 3:
    total_price += quantity * 2800.0;
    break;
case 4:
    total_price += quantity * 2200.0;
    break;
default:
    cout << "    Invalid item selection!" << endl;
    break;
}

```

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        cout << "    Total Price: " << total_price << endl;

        cout << "    Do you want to purchase more? (Y/N): ";
        cin >> choice;
    } while (choice == 'Y' || choice == 'y');
}
};

//***** TOYS *****
class Toys : public Products
{
public:
    void shoppingProducts() override
    {
        do {
            int item, quantity;
            total_price = 0.0; // Declare total_price here
            cout << "    Here are toy details " << endl;
            cout << "    (1) Barbie Doll      : price => 500.00" << endl;
            cout << "    (2) Hot Wheels       : price => 300.00" << endl;
            cout << "    (3) LEGO Set        : price => 800.00" << endl;
            cout << "    (4) Teddy Bear      : price => 200.00" << endl;
            cout << "    Press 0 to exit" << endl;

            cout << "    Select an item to purchase: ";
            cin >> item;

            if (item == 0)
            {
                break;
            }

            cout << "    Enter quantity: ";
            cin >> quantity;

```



```

switch (item)
{
case 1:
    total_price += quantity * 500.0;
    break;
case 2:
    total_price += quantity * 300.0;
    break;
case 3:
    total_price += quantity * 800.0;
    break;
case 4:
    total_price += quantity * 200.0;
    break;
default:
    cout << "    Invalid item selection!" << endl;
    break;
}

cout << "    Total Price: " << total_price << endl;

cout << "    Do you want to purchase more? (Y/N): ";
cin >> choice;
} while (choice == 'Y' || choice == 'y');
}

```

```

class CustomerHelp

```

```

{
public:

    void getHelp()
    {
        cout << "    Welcome to Customer Help!" << endl<<endl;
    }
}

```

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// Welcome to Customer Help, we are here to help you
cout << " How can we assist you today?" << endl;
cout << " (1) Product Inquiry" << endl;
cout << " (2) Order Status" << endl;
cout << " (3) Return or Exchange" << endl;
cout << " (4) Payment Issues" << endl;
cout << " (5) Other Queries" << endl;

int choice;
cout << endl;
cout << " Enter your choice: ";
cin >> choice;

try {
    switch (choice)
    {
    case 1:
        cout << " Please provide the details of the product you are inquiring about." << endl;
        // Perform product inquiry logic here
        break;
    case 2:
        cout << " Your Order is Confirm and On the Way " << endl;
        // Perform order status inquiry logic here
        break;
    case 3:
        cout << " Return the Package from the mentioned Address on the Parcel or contact us on the Number" << endl;
        // Perform return or exchange logic here
        break;
    case 4:
        cout << " Cash on delivery, We dont accept Online Payment" << endl;
        // Perform payment issue logic here
        break;
    case 5:

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        cout << "    Customer Assistance is on the Way" << endl;
        // Perform other query logic here
        break;
    default:
        throw InvalidArg(); // Throw an exception for invalid choice
    }
}
catch (const exception& e)
{
    cout << e.what() << endl;
}
}
};

```

```

int main()
{
    Customer cus("", "", "", "", "");
    cus.cus();
    int cho;
    MakeUp m;
    Perfume p;
    Toys t;
    CustomerHelp ch;

    do
    {
        cout << "    Enter 1 for Makeup Section" << endl << endl;
        cout << "    Enter 2 for Perfume Section" << endl << endl;
        cout << "    Enter 3 for Toys Section" << endl << endl;
        cout << "    Enter 4 for Help Center" << endl << endl;
        cout << "    Enter 5 for Exit from the Program" << endl;
        cout << endl;
        cout << "    Enter your Choice : ";
        cin >> cho;
    }
}

```

```

switch (cho)
{
case 1:

    cout << endl << endl;
    cout << "        Here are the Products for Make Up " << endl << endl;
    m.shoppingProducts();
    break;
    cout << endl << endl;
case 2:

    cout << endl << endl;
    cout << "        Here are the Products for Perfume " << endl << endl;
    p.shoppingProducts();
    break;
    cout << endl << endl;
case 3:

    cout << endl << endl;
    cout << "        Here are the Products for Toys " << endl << endl;
    t.shoppingProducts();
    break;
    cout << endl << endl;
case 4:

    cout << endl << endl;
    ch.getHelp();
    break;
    cout << endl << endl;
default:
    cout << endl << endl;
    cout << "\t\t\t\t\tTHANKYOU FOR CHOOSING A & N SHOP" << endl;
}

```

```

} while (cho != 5);
return 0;
}

```