```cpp
#include <iostream>

#include <conio.h>

#include <string.h>

#include <string>

#include <cstring>

#include <windows.h>


using namespace std;


// Global customer ID counter
int cid = 0;


// ? Welcome Screen
void welcomeScreen() {
        cout << "\n\n\n\n\n\n\n\t\t\t\t\t@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\n";
        cout << "\t\t\t\t\t@@
_____
__ @@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                      WELCOME TO                    |@@\n";
        cout << "\t\t\t\t\t@@|                                                    |@@\n";
        cout << "\t\t\t\t\t@@|                   THE CAKE CHRONICLES              |@@\n";
```

```cpp
        cout << "\t\t\t\t@@|                                                    |@@\n";

        cout << "\t\t\t\t@@|               BAKERY MANAGEMENT SYSTEM              |@@\n";

        cout << "\t\t\t\t@@|                                                    |@@\n";

        cout << "\t\t\t\t@@|                                                    |@@\n";

        cout << "\t\t\t\t@@|                                                    |@@\n";

        cout << "\t\t\t\t@@|          Made by ZUNAIRA KHATOON AND UQBA GULZAR    |@@\n";

        cout << "\t\t\t\t@@|_____|@@\n";

        cout << "\t\t\t\t@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\n\n\n\n\t\t\t\t\t";

        cout << "Press any key to continue...";

        getch();
}




// ? Cake Menu
void menu() {

        system("color E0");

        system("cls");

        cout << "\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t*** Welcome to the CAKE CHRONICLES menu ***" << endl << endl;

        cout << "\t\t\t\t\t\t-----------------------------------------------------------------------------" << endl << endl;

        cout << "\t\t\t\t\t\t\t     Read the menu CAREFULLY before your order" << endl << endl;

        cout << "\t\t\t\t\t\t-----------------------------------------------------------------------------" << endl << endl;

        cout << "\t\t\t\t\t\tNumber count      Cakes                size/price        size/price" << endl << endl;
```

```cpp
        cout << "\t\t\t\t\t\t<1>        red velvet cake        1 pound/RS 1500    2 pound/RS 2000"
<< endl;

        cout << "\t\t\t\t\t\t<2>        pineapple cake        1 pound/RS 1200    2 pound/RS 1700"
<< endl;

        cout << "\t\t\t\t\t\t<3>        black forest cake        1 pound/RS 2000    2 pound/RS 2500"
<< endl;

        cout << "\t\t\t\t\t\t<4>        coffee cake        1 pound/RS 1250    2 pound/RS 1750" <<
endl;

        cout << "\t\t\t\t\t\t<5>        cheesecake        1 pound/RS 1700    2 pound/RS 2300" <<
endl;

        cout << "\t\t\t\t\t\t<6>        kitkat cake        1 pound/RS 1850    2 pound/RS 2450" <<
endl;

        cout << "\t\t\t\t\t\t<7>        choclate lava cake        1 pound/RS 1800    2 pound/RS 2400"
<< endl;

        cout << "\t\t\t\t\t\t<8>        marble cake        1 pound/RS 1100    2 pound/RS 1600" <<
endl << endl << endl;

        cout << "\n\t\t\t\t\t***enhance the taste of your buds by freshly made juicy, creamy and
yummy cakes***" << endl;

        cout << endl << endl;

        cout << "\t\t\t\t\t\t--------------------------------------------------------------------------------" << endl;

        cout << "\t\t\t\t\t\tPress any key to continue...";


        getch();
}


// Base abstract class
class empty {
public:
        virtual void order() = 0;
};


// Base class for customer/admin shared fields
```

```cpp
class declaration : public empty {
public:
        string ID, name, age, gender, address, contact, cake, prize, ord_no, ord_type, pound;
        void order() {}
};


// Customer class
class customer : public declaration {
public:
        declaration m[10];
        string back;
        int status1;


        void get_data();


        void show_data();


        void order();


        void edit();


        void delet();


        void alldata();
};


void customer::get_data()
{
        system("color E0");
```

```cpp
		system("cls");

		cout << endl << endl << endl << endl << endl << endl << endl << endl << endl << endl;

		cout << "\t\t\t\t\t\t\tFill the entries";

		cout << endl << endl;

		getline(cin, m[cid].name);

		cout << "\t\t\t\t\t\t\tID			: ";

		getline(cin, m[cid].ID);

		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tName			: ";

		getline(cin, m[cid].name);

		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tAge			: ";

		getline(cin, m[cid].age);

		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tGender			: ";

		getline(cin, m[cid].gender);

		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tAddress			: ";

		getline(cin, m[cid].address);

		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tContact			: ";

		getline(cin, m[cid].contact);

		cout << endl << endl;
back:
		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tProceed Forward[Y/y]	: ";

		cin >> back;

		if (back == "Y" || back == "y")

		{
```

```cpp
                cout << endl << endl;

                cout << "\t\t\t\t\t\t\tYou filled all Entries of customer successfully...";

                getch();

        }

        else

        {

                cout << "\n\t\t\t\t\t\t\tWrong Input";

                goto back;

        }

}


void customer::show_data()

{

        system("color E0");

        system("cls");

        string n;

        cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\tEnter the CUSTOMER ID  to display
Record: ";

        cin >> n;

        system("cls");

        if (n == "0")

        {

                system("cls");

                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\tOOPS!!!!" << endl;

                cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some
Entries...";

        }

        else

        {
```

```cpp
int i;

for (i = 0; i < cid; i++)

{

        status1 = 0;

        if (n == m[i].ID)

        {

                status1 = 1; //here 1 is considered as bool true

                break;

        }

}

if (status1)

{

        cout << "\n\n\n\n\n\n\n\n\n\n";

        cout << "\t\t\t\t\t\t\t-----------------------------------" << endl << endl;

        cout << "\t\t\t\t\t\t\tID              :" << m[i].ID << endl << endl;

        cout << "\t\t\t\t\t\t\tName              :" << m[i].name << endl << endl;

        cout << "\t\t\t\t\t\t\tAge              :" << m[i].age << endl << endl;

        cout << "\t\t\t\t\t\t\tGender              :" << m[i].gender << endl << endl;

        cout << "\t\t\t\t\t\t\tAddress              :" << m[i].address << endl << endl;

        cout << "\t\t\t\t\t\t\tContact              :" << m[i].contact << endl << endl;

        cout << "\t\t\t\t\t\t\torder number        :" << m[i].ord_no << endl << endl;

        cout << "\t\t\t\t\t\t\tcake              :" << m[i].cake << endl << endl;

        cout << "\t\t\t\t\t\t\tprice              :" << m[i].prize << endl << endl;

        cout << "\t\t\t\t\t\t\t-----------------------------------" << endl << endl;

        cout << "\t\t\t\t\t\t\tPress any key to choose another option...";

}

else

{
```

```cpp
                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\tNo such ID in
database" << endl;

                cout << "\t\t\t\t\t\t\tPress any key to choose another option...";
        }
    }
    getch();
}


void customer::order()
{
        system("color E0");
        string ord;
above:
        system("cls");
        cout << "\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t*** Select Your Order ***" << endl << endl;
        cout << "\t\t\t\t\t\t\t-----------------------------------------------------------" << endl << endl;
        cout << "\t\t\t\t\t\tNumber count     Cakes              size/price         size/price" << endl <<
endl;
        cout << "\t\t\t\t\t\t<1>             red velvet cake        1 pound/RS 1500     2 pound/RS 2000"
<< endl;
        cout << "\t\t\t\t\t\t<2>             pineapple cake       1 pound/RS 1200     2 pound/RS 1700"
<< endl;
        cout << "\t\t\t\t\t\t<3>             black forest cake      1 pound/RS 2000     2 pound/RS 2500"
<< endl;
        cout << "\t\t\t\t\t\t<4>             coffee cake          1 pound/RS 1250     2 pound/RS 1750" <<
endl;
        cout << "\t\t\t\t\t\t<5>             cheesecake           1 pound/RS 1700     2 pound/RS 2300" <<
endl;
        cout << "\t\t\t\t\t\t<6>             kitkat cake          1 pound/RS 1850     2 pound/RS 2450" <<
endl;
        cout << "\t\t\t\t\t\t<7>             choclate lava cake     1 pound/RS 1800     2 pound/RS 2400"
<< endl;
```

```cpp
		cout << "\t\t\t\t\t\t<8>           marble cake          1 pound/RS 1100     2 pound/RS 1600" << endl << endl << endl;

		cout << "\n\t\t\t\t\t***enhance the taste of your buds by freshly made juicy, creamy and yummy cakes***" << endl;

		cout << "\t\t\t\t\t\t\t-----------------------------------------------------------" << endl << endl;

		cout << "\t\t\t\t\t\t\tPress any key to continue...";

		getch();

		cout << endl << endl;

		cout << "\t\t\t\t\t\t\tEnter Your Choice:    ";

		cin >> ord;

		if (ord == "1")

		{

			m[cid].ord_no = "\t\t\t\t\t\t\t1-";

			cout << m[cid].ord_no;

			m[cid].cake = " red velvet cake";

			cout << m[cid].cake << endl;

	p:

			cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

			cin >> pound;

			{if (pound == "1")

			{

				cout << "\t\t\t\t\t\t\t1 pound" << endl;

				m[cid].prize = "1500";

				cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

				cout << "\t\t\t\t\t\t\tPress any key to continue...";

				getch();

			}

			else if (pound == "2")

			{
```

```cpp
                    cout << "\t\t\t\t\t\t\t2 pound" << endl;

                    m[cid].prize = "2000";

                    cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                    cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                    getch();

            }

            else

            {

                    cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                    cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                    getch();

                    goto p;

            }}

    }

    else if (ord == "2")

    {

            m[cid].ord_no = "\t\t\t\t\t\t\t2-";

            cout << m[cid].ord_no;

            m[cid].cake = " pineapple cake";

            cout << m[cid].cake << endl;

o:

            cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

            cin >> pound;

            {if (pound == "1")

            {

                    cout << "\t\t\t\t\t\t\t1 pound" << endl;

                    m[cid].prize = "1200";

                    cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                    cout << "\t\t\t\t\t\t\tPress any key to continue...";
```

```cpp
			getch();
		}
		else if (pound == "2")
		{
			cout << "\t\t\t\t\t\t\t2 pound" << endl;
			m[cid].prize = "1700";
			cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;
			cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
			getch();
		}
		else
		{
			cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;
			cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
			getch();
			goto o;
		}}
	}
	else if (ord == "3")
	{
		m[cid].ord_no = "\t\t\t\t\t\t\t3-";
		cout << m[cid].ord_no;
		m[cid].cake = " black forest cake";
		cout << m[cid].cake << endl;
u:
		cout << "\t\t\t\t\t\t\tEnter Pounds:    ";
		cin >> pound;
		{if (pound == "1")
		{
```

```cpp
                cout << "\t\t\t\t\t\t\t1 pound" << endl;

                m[cid].prize = "2000";

                cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                cout << "\t\t\t\t\t\t\tPress any key to continue...";

                getch();

        }

        else if (pound == "2")

        {

                cout << "\t\t\t\t\t\t\t2 pound" << endl;

                m[cid].prize = "2500";

                cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                getch();

        }

        else

        {

                cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                getch();

                goto u;

        }}

}

else if (ord == "4")

{

        m[cid].ord_no = "\t\t\t\t\t\t\t4-";

        cout << m[cid].ord_no;

        m[cid].cake = " coffee cake";

        cout << m[cid].cake << endl;

n:
```

```cpp
cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

cin >> pound;

{if (pound == "1")

{

        cout << "\t\t\t\t\t\t\t1 pound" << endl;

        m[cid].prize = "1250";

        cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

        cout << "\t\t\t\t\t\t\tPress any key to continue...";

        getch();

}

else if (pound == "2")

{

        cout << "\t\t\t\t\t\t\t2 pound" << endl;

        m[cid].prize = "1750";

        cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

        getch();

}

else

{

        cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

        getch();

        goto n;

}}

}

else if (ord == "5")

{

        m[cid].ord_no = "\t\t\t\t\t\t\t5-";
```

```cpp
			cout << m[cid].ord_no;

			m[cid].cake = " cheese cake";

			cout << m[cid].cake << endl;
	d:

			{cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

			cin >> pound;

			{if (pound == "1")

			{

					cout << "\t\t\t\t\t\t\t1 pound" << endl;

					m[cid].prize = "1700";

					cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

					cout << "\t\t\t\t\t\t\tPress any key to continue...";

					getch();

			}

			else if (pound == "2")

			{

					cout << "\t\t\t\t\t\t\t2 pound" << endl;

					m[cid].prize = "2300";

					cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

					cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

					getch();

			}

			else

			{

					cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

					cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

					getch(); goto d;

			}}}

	}
```

```cpp
else if (ord == "6")

{

        m[cid].ord_no = "\t\t\t\t\t\t\t6-";

        cout << m[cid].ord_no;

        m[cid].cake = " kitkat cake";

        cout << m[cid].cake << endl;

e:

        cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

        cin >> pound;

        {if (pound == "1")

        {

                cout << "\t\t\t\t\t\t\t1 pound" << endl;

                m[cid].prize = "1850";

                cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                cout << "\t\t\t\t\t\t\tPress any key to continue...";

                getch();

        }

        else if (pound == "2")

        {

                cout << "\t\t\t\t\t\t\t2 pound" << endl;

                m[cid].prize = "2450";

                cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                getch();

        }

        else

        {

                cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
```

```cpp
                getch();
                goto e;
        }}
}
else if (ord == "7")
{
        m[cid].ord_no = "\t\t\t\t\t\t\t7-";
        cout << m[cid].ord_no;
        m[cid].cake = " choclate lava cake";
        cout << m[cid].cake << endl;
f:
        cin >> pound;
        cout << "\t\t\t\t\t\t\tEnter Pounds:    ";
        cin >> pound;
        {if (pound == "1")
        {
                cout << "\t\t\t\t\t\t\t1 pound" << endl;
                m[cid].prize = "1800";
                cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;
                cout << "\t\t\t\t\t\t\tPress any key to continue...";
                getch();
        }
        else if (pound == "2")
        {
                cout << "\t\t\t\t\t\t\t2 pound" << endl;
                m[cid].prize = "2400";
                cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;
                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
                getch();
```

```cpp
			}
			else
			{
					cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;
					cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
					getch();
					goto f;
			}}
	}
	else if (ord == "8")
	{
			m[cid].ord_no = "\t\t\t\t\t\t\t8-";
			cout << m[cid].ord_no;
			m[cid].cake = " marble cake";
			cout << m[cid].cake << endl;
	g:
			cout << "\t\t\t\t\t\t\tEnter Pounds:    ";
			cin >> pound;
			{if (pound == "1")
			{
					cout << "\t\t\t\t\t\t\t1 pound" << endl;
					m[cid].prize = "1100";
					cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;
					cout << "\t\t\t\t\t\t\tPress any key to continue...";
					getch();
			}
			else if (pound == "2")
			{
					cout << "\t\t\t\t\t\t\t2 pound" << endl;
```

```cpp
                        m[cid].prize = "1600";

                        cout << "\t\t\t\t\t\t\tRS " << m[cid].prize << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                        getch();

                }
                else

                {

                        cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                        getch();

                        goto g;

                }}

        }
        else

        {

                system("cls");

                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\tWrong Input" << endl;

                cout << "\t\t\t\t\t\t\tPress any key to choose another option...";

                getch();

                goto above;

        }
}


void customer::edit()

{

        system("color E0");

        system("cls");

        string n;
```

```cpp
        cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\tEnter the customer's ID  to display Record: ";

        cin >> n;

        system("cls");

        if (n == "0")

        {

                system("cls");

                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\tOOPS!!!!" << endl;

                cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some Entries...";

        }

        else

        {

                int i;

                for (i = 0; i < cid; i++)

                {

                        status1 = 0;

                        if (n == m[i].ID)

                        {

                                status1 = 1; //here 1 is considered as bool true

                                break;

                        }

                }

                if (status1)

                {

                        system("cls");

                        cout << endl << endl << endl;

                        cout << "\t\t\t\t\t\t\tMention a customer id      : ";

                        cin.ignore();
```

```cpp
                getline(cin, m[i].ID);

                cout << endl << endl;

                cout << "\t\t\t\t\t\t\tName               : ";

                getline(cin, m[i].name);

                cout << endl << endl;

                cout << "\t\t\t\t\t\t\tAge              : ";

                getline(cin, m[i].age);

                cout << endl << endl;

                cout << "\t\t\t\t\t\t\tGender               : ";

                getline(cin, m[i].gender);

                cout << endl << endl;

                cout << "\t\t\t\t\t\t\tAddress             : ";

                getline(cin, m[i].address);

                cout << endl << endl;

                cout << "\t\t\t\t\t\t\tContact             : ";

                getline(cin, m[i].contact);

                menu();

                string ord;
        above2:

                system("cls");

                cout << "\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t*** Select Your Order ***" <<
endl << endl;

                cout << "\t\t\t\t\t\t\t-------------------------------------------------------" << endl <<
endl;

                cout << "\t\t\t\t\t\tNumber count     Cakes              size/price
size/price" << endl << endl;

                cout << "\t\t\t\t\t\t<1>            red velvet cake       1 pound/RS 1500     2
pound/RS 2000" << endl;

                cout << "\t\t\t\t\t\t<2>            pineapple cake       1 pound/RS 1200     2
pound/RS 1700" << endl;
```

```cpp
cout << "\t\t\t\t\t<3>          black forest cake      1 pound/RS 2000      2 pound/RS 2500" << endl;

cout << "\t\t\t\t\t<4>          coffee cake        1 pound/RS 1250      2 pound/RS 1750" << endl;

cout << "\t\t\t\t\t<5>          cheesecake         1 pound/RS 1700      2 pound/RS 2300" << endl;

cout << "\t\t\t\t\t<6>          kitkat cake        1 pound/RS 1850      2 pound/RS 2450" << endl;

cout << "\t\t\t\t\t<7>          choclate lava cake     1 pound/RS 1800      2 pound/RS 2400" << endl;

cout << "\t\t\t\t\t<8>          marble cake        1 pound/RS 1100      2 pound/RS 1600" << endl << endl << endl << endl;

cout << "\t\t\t\t\t\t\t------------------------------------------------------" << endl << endl;

cout << "\t\t\t\t\t\t\tPress any key to continue...";

getch();

cout << endl << endl;

cout << "\t\t\t\t\t\t\tEnter Your Choice:    ";

cin >> ord;

if (ord == "1")

{

        m[i].ord_no = "\t\t\t\t\t\t\t1-";

        cout << m[i].ord_no;

        m[i].cake = " red velvet cake";

        cout << m[i].cake << endl;

p:

        cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

        cin >> pound;

        {if (pound == "1")

        {

                cout << "\t\t\t\t\t\t\t1 pound" << endl;
```

```cpp
                                m[i].prize = "1500";

                                cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

                                cout << "\t\t\t\t\t\t\tPress any key to continue...";

                                getch();
                        }
                        else if (pound == "2")
                        {
                                cout << "\t\t\t\t\t\t\t2 pound" << endl;

                                m[i].prize = "2000";

                                cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

                                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                                getch();
                        }
                        else
                        {
                                cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                                cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                                getch();

                                goto p;
                        }}
                }
                else if (ord == "2")
                {
                        m[i].ord_no = "\t\t\t\t\t\t\t2-";

                        cout << m[i].ord_no;

                        m[i].cake = " pineapple cake";

                        cout << m[i].cake << endl;
o:
                        cout << "\t\t\t\t\t\t\tEnter Pounds:     ";
```

```cpp
cin >> pound;

{if (pound == "1")

{

	cout << "\t\t\t\t\t\t\t1 pound" << endl;

	m[i].prize = "1200";

	cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

	cout << "\t\t\t\t\t\t\tPress any key to continue...";

	getch();

}

else if (pound == "2")

{

	cout << "\t\t\t\t\t\t\t2 pound" << endl;

	m[i].prize = "1700";

	cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

	cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

	getch();

}

else

{

	cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

	cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

	getch(); goto o;

}}

}

else if (ord == "3")

{

	m[i].ord_no = "\t\t\t\t\t\t\t3-";

	cout << m[i].ord_no;

	m[i].cake = " black forest cake";
```

```cpp
            cout << m[i].cake << endl;
u:
            cout << "\t\t\t\t\t\t\tEnter Pounds:    ";
            cin >> pound;
            {if (pound == "1")
            {
                    cout << "\t\t\t\t\t\t\t1 pound" << endl;
                    m[i].prize = "2000";
                    cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;
                    cout << "\t\t\t\t\t\t\tPress any key to continue...";
                    getch();
            }
            else if (pound == "2")
            {
                    cout << "\t\t\t\t\t\t\t2 pound" << endl;
                    m[i].prize = "2500";
                    cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;
                    cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
                    getch();
            }
            else
            {
                    cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;
                    cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
                    getch(); goto u;
            }}
        }
        else if (ord == "4")
        {
```

```cpp
		m[i].ord_no = "\t\t\t\t\t\t\t4-";

		cout << m[i].ord_no;

		m[i].cake = " coffee cake";

		cout << m[i].cake << endl;

n:

		cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

		cin >> pound;

		{if (pound == "1")

		{

			cout << "\t\t\t\t\t\t\t1 pound" << endl;


			m[i].prize = "1250";

			cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

			cout << "\t\t\t\t\t\t\tPress any key to continue...";

			getch();

		}

		else if (pound == "2")

		{

			cout << "\t\t\t\t\t\t\t2 pound" << endl;

			m[i].prize = "1750";

			cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

			cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

			getch();

		}

		else

		{

			cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

			cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

			getch(); goto n;
```

```cpp
                    }}
          }
          else if (ord == "5")
          {
                    m[i].ord_no = "\t\t\t\t\t\t\t5-";
                    cout << m[i].ord_no;
                    m[i].cake = " cheese cake";
                    cout << m[cid].cake << endl;
          d:
                    cout << "\t\t\t\t\t\t\tEnter Pounds:    ";
                    cin >> pound;
                    {if (pound == "1")
                    {
                              cout << "\t\t\t\t\t\t\t1 pound" << endl;
                              m[i].prize = "1700";
                              cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;
                              cout << "\t\t\t\t\t\t\tPress any key to continue...";
                              getch();
                    }
                    else if (pound == "2")
                    {
                              cout << "\t\t\t\t\t\t\t2 pound" << endl;
                              m[i].prize = "2300";
                              cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;
                              cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
                              getch();
                    }
                    else
                    {
```

```cpp
                        cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                        getch(); goto d;

            }}
        }
        else if (ord == "6")

        {

                m[i].ord_no = "\t\t\t\t\t\t\t6-";

                cout << m[i].ord_no;

                m[i].cake = " kitkat cake";

                cout << m[i].cake << endl;

e:

                cout << "\t\t\t\t\t\t\tEnter Pounds:     ";

                cin >> pound;

                {if (pound == "1")

                {

                        cout << "\t\t\t\t\t\t\t1 pound" << endl;

                        m[i].prize = "1850";

                        cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue...";

                        getch();

                }

                else if (pound == "2")

                {

                        cout << "\t\t\t\t\t\t\t2 pound" << endl;

                        m[i].prize = "2450";

                        cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                        getch();
```

```cpp
			}
			else
			{
					cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;
					cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
					getch();    goto e;
			}}
	}
	else if (ord == "7")
	{
			m[i].ord_no = "\t\t\t\t\t\t\t7-";
			cout << m[i].ord_no;
			m[i].cake = " choclate lava cake";
			cout << m[i].cake << endl;
	f:
			cin >> pound;
			cout << "\t\t\t\t\t\t\tEnter Pounds:     ";
			cin >> pound;
			{if (pound == "1")
			{
					cout << "\t\t\t\t\t\t\t1 pound" << endl;
					m[i].prize = "1800";
					cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;
					cout << "\t\t\t\t\t\t\tPress any key to continue...";
					getch();
			}
			else if (pound == "2")
			{
					cout << "\t\t\t\t\t\t\t2 pound" << endl;
```

```cpp
                        m[i].prize = "2400";

                        cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                        getch();

                }

                else

                {

                        cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;

                        getch(); goto f;

                }}

        }

        else if (ord == "8")

        {

                m[i].ord_no = "\t\t\t\t\t\t\t8-";

                cout << m[i].ord_no;

                m[i].cake = " marble cake";

                cout << m[i].cake << endl;

g:

                cout << "\t\t\t\t\t\t\tEnter Pounds:    ";

                cin >> pound;

                {if (pound == "1")

                {

                        cout << "\t\t\t\t\t\t\t1 pound" << endl;

                        m[i].prize = "1100";

                        cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;

                        cout << "\t\t\t\t\t\t\tPress any key to continue...";

                        getch();

                }
```

```cpp
                    else if (pound == "2")
                    {
                        cout << "\t\t\t\t\t\t\t2 pound" << endl;
                        m[i].prize = "1600";
                        cout << "\t\t\t\t\t\t\tRS " << m[i].prize << endl;
                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
                        getch();
                    }
                    else
                    {
                        cout << "\t\t\t\t\t\t\tno such pound cake available" << endl;
                        cout << "\t\t\t\t\t\t\tPress any key to continue..." << endl;
                        getch();            goto g;
                    }}
                }
                else {
                    system("cls");
                    cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tWrong
Input" << endl;
                    cout << "\t\t\t\t\t\t\t\tPress any key to choose another option...";
                    getch();
                    goto above2;
                }
            }
            else
            {
                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tNo such ID in
database" << endl;
                cout << "\t\t\t\t\t\t\t\tPress any key to choose another option...";
```

```
                }

        }

        getch();

}


void customer::delet()

{

        system("color E0");

        system("cls");

        string n;

        cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\tEnter the member's ID  to display
Record: ";

        cin >> n;

        system("cls");

        if (n == "0")

        {

                system("cls");

                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\tOOPS!!!!" << endl;

                cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some
Entries...";

        }

        else {

                int i;

                for (i = 0; i < cid; i++)

                {

                        status1 = 0;

                        if (n == m[i].ID)

                        {

                                status1 = 1; //here 1 is considered as bool true
```

```cpp
                                       break;

                               }

                       }

               if (status1) {

                               m[i].ID, m[i].name, m[i].age, m[i].gender, m[i].address, m[i].contact,
m[i].ord_no, m[i].cake, m[i].prize, m[i].ord_type = "Removed";

                               cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\tRecord Deleted...";

                               getch();

                       }

               else {

                               cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\tNo such ID in
database" << endl;

                               cout << "\t\t\t\t\t\t\tPress any key to choose another option...";

                               getch();

                       }

               }

       }


void customer::alldata()

{

       system("cls");

       system("color E0");

       if (cid == 0)

       {

               system("cls");

               cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\tOOPS!!!!" << endl;

               cout << "\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some
Entries...";

       }

       else
```

```cpp
	{
		cout << "\n\n\n\n\n\n\n\t\t\t\t\t------------------------------------------------------------------------" << endl << endl;

		cout << "\t\t\t\t\t\t\t  Details Of All orders" << endl << endl;

		cout << "\t\t\t\t\t-----------------------------------------------------------------------------" << endl << endl;

		cout << "ID" << "\t" << "NAME" << "\t\t" << "AGE" << "\t\t" << "Gender" << "\t\t" << "Address" << "\t\t" << "Contact" << "\t\t" << "cake" << "\t\t" << "price" << "\t\t" << "order type" << endl << endl;

		for (int i = 0; i < cid; i++)
		{
			cout << m[i].ID << "\t" << m[i].name << "\t\t" << m[i].age << "\t\t" << m[i].gender << "\t\t" << m[i].address << "\t\t" << m[i].contact << "\t\t" << m[i].cake << "\t\t" << m[i].prize << "\t\t" << m[i].ord_type << endl << endl;

		}

		cout << "\t\t\t\t\t-----------------------------------------------------------------------------" << endl << endl;

		cout << "\n\t\t\t\t\tPress any key to choose another option...";
	}
	getch();
}




// ? Admin Class
class admin {
private:
	string username = "admin";
	string password = "1234";
public:
	customer obj;
```

```cpp
bool login() {

        string user, pass;

        int attempts = 3;

        while (attempts > 0) {

                system("cls");

                cout << "\n\n\n\t\t\t\t\t*** Admin Login ***\n";

                cout << "\t\t\t\t\tUsername: ";

                cin >> user;

                cout << "\t\t\t\t\tPassword: ";

                pass = "";

                char ch = _getch();

                while (ch != 13) {

                        if (ch == 8) {

                                if (!pass.empty()) {

                                        pass.pop_back();

                                        cout << "\b \b";

                                }

                        }

                        else {

                                pass.push_back(ch);

                                cout << '*';

                        }

                        ch = _getch();

                }


                if (user == username && pass == password) {

                        cout << "\n\n\t\t\t\t\tLogin Successful!";

                        Sleep(1000);
```

```cpp
                    return true;
                }
                else {
                    attempts--;
                    cout << "\n\n\t\t\t\t\tInvalid Credentials! Attempts left: " << attempts;
                    Sleep(1500);
                }
            }
            cout << "\n\n\t\t\t\t\tToo many failed attempts. Access Denied!";
            Sleep(2000);
            return false;
    }

    void adminMenu() {
            string ch, ch1;
            int count = 0;
            int status1;
            do {
                    system("cls");
                    cout << "\n\n\t\t\t\t*** Admin Panel ***\n";
                    cout << "\t\t\t\t1. Order Management\n";
                    cout << "\t\t\t\t2. Logout\n";
                    cout << "\n\t\t\t\tEnter your choice: ";
                    cin >> ch;

                    if (ch == "1") {
                    secondmain:
                            system("cls");
```

```cpp
cout << "\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t*** ORDER MANAGEMENT System ***" << endl << endl;

cout << "\t\t\t\t\t\t\t------------------------------------------" << endl << endl;

cout << "\t\t\t\t\t\t\t<1> View Menu" << endl << endl;

cout << "\t\t\t\t\t\t\t<2> View All Orders" << endl << endl;

cout << "\t\t\t\t\t\t\t<3> Delete order" << endl << endl;

cout << "\t\t\t\t\t\t\t<4> Exit" << endl << endl;

cout << "\t\t\t\t\t\t\t------------------------------------------" << endl << endl;

cout << "\t\t\t\t\t\t\tEnter Your Choice:    ";
cin >> ch1;


if (ch1 == "1")
{
        menu();
        goto secondmain;
}


else if (ch1 == "2")
{
        if (count == 0)
        {
                system("cls");
                cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tOOPS!!!!" << endl;
                cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some Entries...";
                getch();
                goto secondmain;
```

```cpp
                    }
                    else {
                        obj.alldata();
                        goto secondmain;
                    }
                }

                else if (ch1 == "3")
                {
                    if (count == 0) {
                        system("cls");
                        cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\tOOPS!!!!" << endl;
                        cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz
Go Back And Enter Some Entries...";
                        getch();
                        goto secondmain;
                    }
                    else {
                        obj.delet();
                        goto secondmain;
                    }
                }
            }
            else if (ch == "2") { cout << "\n\n\t\t\t\t\tLogging out..."; Sleep(1000); }
            else { cout << "\n\n\t\t\t\t\tInvalid choice! Try again."; Sleep(1000); }
        } while (ch != "2");
    }
```

```cpp
};

// ? MAIN PROGRAM
int main() {
        system("color E0");
        welcomeScreen();

        string choice;
        admin adminObj;
        customer obj;
mode:
        system("cls");
        cout << "\n\n\n\t\t\t\t*** Login Portal ***\n";
        cout << "\t\t\t\t---------------------\n";
        cout << "\t\t\t\t1. Admin Login\n";
        cout << "\t\t\t\t2. Customer Login\n";
        cout << "\t\t\t\t3. Exit ";
        cout << "\n\t\t\t\tEnter your choice: ";
        cin >> choice;

        if (choice == "1") {
                if (adminObj.login()) {
                        adminObj.adminMenu();
                        goto mode;
                }
        }
        else if (choice == "2") {
                {string ch, ch1;
                int count = 0;
```

```cpp
mainmenu:
    system("cls");

    cout << "\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t*** Welcome to the CAKE BAKERY
MANAGEMENT System ***" << endl << endl;

    cout << "\t\t\t\t\t\t\t-------------------------------------------" << endl << endl;

    cout << "\t\t\t\t\t\t\t<1> Order" << endl << endl;

    cout << "\t\t\t\t\t\t\t<2> Cakes Menu" << endl << endl;

    cout << "\t\t\t\t\t\t\t<3> Instructions/Help" << endl << endl;

    cout << "\t\t\t\t\t\t\t<4> Exit" << endl << endl;

    cout << "\t\t\t\t\t\t\t-------------------------------------------" << endl << endl;

    cout << "\t\t\t\t\t\t\tEnter Your Choice:    ";

    cin >> ch;

    if (ch == "1")

    {

secondmain:
        system("cls");

        cout << "\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t*** Welcome to the Main
Menu ***" << endl << endl;

        cout << "\t\t\t\t\t\t\t---------------------------------------------" << endl << endl;

        cout << "\t\t\t\t\t\t\t\t<1> Place Order" << endl << endl;

        cout << "\t\t\t\t\t\t\t\t<2> View Your cart" << endl << endl;

        cout << "\t\t\t\t\t\t\t\t<3> Edit Your Order" << endl << endl;

        cout << "\t\t\t\t\t\t\t\t<4> Delete Your Order" << endl << endl;

        cout << "\t\t\t\t\t\t\t\t<5> Go Back" << endl << endl;

        cout << "\t\t\t\t\t\t\t\t---------------------------------------------" << endl << endl;

        cout << "\t\t\t\t\t\t\tEnter Your choice:    ";

        cin >> ch1;

        if (ch1 == "1")

        {
```

```cpp
                    obj.get_data();

                    system("cls");

                    menu();

                    obj.order();

                    cout << endl << endl;

                    cout << "\t\t\t\t\t\t\torder successfully placed";

                    getch();

                    cid++;

                    count++;

                    goto secondmain;

            }


            else if (ch1 == "2")

            {

                    if (count == 0) {

                            system("cls");

                            cout <<
"\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tOOPS!!!!" << endl;

                            cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go
Back And Enter Some Entries...";

                            getch();

                            goto secondmain;

                    }
                    else

                    {

                            obj.show_data();

                            goto secondmain;

                    }

            }
```

```cpp
else if (ch1 == "3")
{
    if (count == 0) {
        system("cls");
        cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tOOPS!!!!" << endl;
        cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some Entries...";
        getch();
        goto secondmain;
    }
    else
    {
        obj.edit();      goto secondmain;
    }
}

else if (ch1 == "4")
{
    if (count == 0) {
        system("cls");
        cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tOOPS!!!!" << endl;
        cout << "\t\t\t\t\t\t\t\tNote: No Record To Display  Plz Go Back And Enter Some Entries...";
        getch();
        goto secondmain;
    }
    else {
        obj.delet();
```

```cpp
                    goto secondmain;

                }

            }
            else if (ch1 == "5")

            {

                    goto mainmenu;

            }
            else

            {

                    system("cls");

                    cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tWrong
Input" << endl;

                    cout << "\t\t\t\t\t\t\t\tPress any key to choose another option...";

                    getch();

                    goto secondmain;

            }

        }
        else if (ch == "2")

        {

                menu();

                goto mainmenu;

        }
        else if (ch == "3") {

                system("cls");

                cout << "\n\n\n\n\n\t\t\t\t  -----------------------------------------------------------------
---------------------------------------" << endl << endl;

                cout << "\t\t\t\tThe most important thing note while running this program is
that first of all enter into main menu and " << endl;

                cout << "\t\tthan start with entering the data and than afterwards you can book
your order. This is a data management" << endl;
```

```cpp
                cout << "\t\tsystem of cake bakery in which you can easily book your cake orders and also delete any order if you want. " << endl;

                cout << "\t\t\t\t  ---------------------------------------------------------------------------------------------" << endl << endl;

                cout << "\t\t\t\t   Press any key to choose another option...";

                getch();

                goto mainmenu;
        }
        else if (ch == "4")
        {
                system("cls");

                cout << "\n\n\n\n\n\t\t\t\t\t@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\n";

                cout << "\t\t\t\t\t@@_____ @@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";

                cout << "\t\t\t\t\t@@|                        THANK YOU FOR USING                 |@@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";

                cout << "\t\t\t\t\t@@|                  CAKE BAKERY MANAGEMENT SYSTEM             |@@\n";

                cout << "\t\t\t\t\t@@|                                                            |@@\n";
```

```cpp
                    cout << "\t\t\t\t\t@@|
|@@\n";

                    cout << "\t\t\t\t\t@@|
|@@\n";

                    cout << "\t\t\t\t\t@@|
|@@\n";

                    cout << "\t\t\t\t\t@@|
|@@\n";

                    cout << "\t\t\t\t\t@@|                              Made by ZUNAIRA & UQBA
|@@\n";

                    cout <<
"\t\t\t\t\t@@|_____
_____|@@\n";

                    cout <<
"\t\t\t\t\t@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@\n\n\n\n
\t\t\t\t\t";

                    goto mode;
                }
                else {

                    system("cls");

                    cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\tWrong Input" <<
endl;

                    cout << "\t\t\t\t\t\t\t\t\tPress any key to choose another option...";

                    getch();

                    goto mainmenu;
                }
            }       cout << "\n\n\t\t\t\t\tOrder successfully booked!";

            cout << "\n\n\t\t\t\t\tPress any key to exit...";

            getch();
        }
}
```