BILLING SYSTEM

01-135211-102

Name: Muhammad Hammad.

Enrollment No: 01-135211-102

Code:

```
/ Billing Project in C++.
#include<iostream>
#include<conio.h>
#include<string>
#include<fstream>
using namespace std;
class bill // class
{
private: // variables
        int code;
        float price, discount;
        string name;
public: // functions
        void menu();
        void admin();
        void customer();
        void add();
        void search();
        void edit();
        void del();
        void show();
        void list();
```

```
        void invoice();
};
void bill::menu() // define menu function of bill class
{
p:
        system("cls");
        int choice;
        char ch;
        string email, pass;
        cout << "\n\n\t\t\tControl Panel";
        cout << "\n\n 1. Admin";
        cout << "\n 2. Customer";
        cout << "\n 3. Exit";
        cout << "\n\n Enter Your Choice : ";
        cin >> choice;
        switch (choice)
        {
        case 1:
                system("cls");
                cout << "\n\n\t\t\tLogin System";
                cout << "\n\n E-mail : ";
                cin >> email;
                cout << "\n\n Password : ";
                for (int i = 1; i <= 6; i++)
                {
                        ch = _getch();
```

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                pass += ch;
                cout << "*";
            }
            if (email == "khizar@gmail.com" && pass == "khizar")
            {
                admin();
            }
            else
            {
                cout << "\n\n Invalid E-mail & Password...";
            }
            break;
        case 2:
            customer();
        case 3:
            exit(0);
        default:
            cout << "\n\n Invalid Value...Please Try Again...";
        }
        _getch();
        goto p;
}
void bill::admin() // Admin function of bill class
{
p:
        system("cls");
```

```
int choice;
cout << "\n\n\t\t\tAdmin Panel";
cout << "\n\n 1. Add Product";
cout << "\n 2. Search Product";
cout << "\n 3. Edit Product";
cout << "\n 4. Delete Product";
cout << "\n 5. Show Products";
cout << "\n 6. Go Back";
cout << "\n\n Enter Your Choice : ";
cin >> choice;
switch (choice)
{
case 1:
        add();
        break;
case 2:
        search();
        break;
case 3:
        edit();
        break;
case 4:
        del();
        break;
case 5:
        show();
```

```
                break;
        case 6:
                menu();
        default:
                cout << "\n\n Invalid Value...Please Try Again...";
        }
        _getch();
        goto p;
}
void bill::customer() // Customer function of bill class
{
p:
        system("cls");
        int choice;
        cout << "\n\n\t\t\tCustomer Panel";
        cout << "\n\n 1. Sale Product";
        cout << "\n 2. Go Back";
        cout << "\n\n Enter Your Choice : ";
        cin >> choice;
        switch (choice)
        {
        case 1:
                invoice();
                break;
        case 2:
                menu();
```

```
        default:
                cout << "\n\n Invalid Value...Please Try Again...";
        }
        _getch();
        goto p;
}
void bill::add() // Add Product function in bill class
{
p:
        system("cls");
        fstream file;
        int c, found = 0;
        float p, d;
        string n;
        cout << "\n\n\t\t\tAdd New Product";
        cout << "\n\n Product Code : ";
        cin >> code;
        cout << "\n\n Name : ";
        cin >> name;
        cout << "\n\n Price : ";
        cin >> price;
        cout << "\n\n Discount in % : ";
        cin >> discount;
        file.open("product.txt", ios::in);
        if (!file)
        {
```

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            file.open("product.txt", ios::app | ios::out);
            file << " " << code << " " << name << " " << price << " " << discount << "\n";
            file.close();
        }
        else
        {
            file >> c >> n >> p >> d;
            while (!file.eof())
            {
                if (c == code)
                {
                    found++;
                }
                file >> c >> n >> p >> d;
            }
            file.close();
            if (found == 1)
                goto p;
            else
            {
                file.open("product.txt", ios::app | ios::out);
                file << " " << code << " " << name << " " << price << " " << discount <<
"\n";
                file.close();
            }
        }
```

```
	cout << "\n\n\t\t Record Inserted Successfully...";
}
void bill::search() // search function of bill class
{
	system("cls");
	fstream file;
	int p_c, found = 0;
	cout << "\n\n\t\t\tSearch Record";
	cout << "\n\n Product Code : ";
	cin >> p_c;
	file.open("product.txt", ios::in);
	if (!file)
	{
		cout << "\n\n File Openning Error...";
	}
	else
	{
		file >> code >> name >> price >> discount;
		while (!file.eof())
		{
			if (p_c == code)
			{
				system("cls");
				cout << "\n\n\t\t\tSearch Record";
				cout << "\n\n Product Code : " << code;
				cout << "\n\n Name : " << name;
```

```
                cout << "\n\n Price : " << price;
                cout << "\n\n Discount : " << discount << "%";
                found++;
            }
            file >> code >> name >> price >> discount;
        }
        file.close();
        if (found == 0)
            cout << "\n\n Record Can't Found...";
    }
}
void bill::edit() // edit function of bill class
{
    system("cls");
    fstream file, file1;
    int p_c, found = 0, c;
    float p, d;
    string n;
    cout << "\n\n\t\t\tEdit Record";
    cout << "\n\n Product Code : ";
    cin >> p_c;
    file.open("product.txt", ios::in);
    if (!file)
    {
        cout << "\n\n File Openning Error...";
    }
```

```
        else
        {
                file1.open("product1.txt", ios::app | ios::out);
                file >> code >> name >> price >> discount;
                while (!file.eof())
                {
                        if (p_c == code)
                        {
                                cout << "\n\n Product New Code : ";
                                cin >> c;
                                cout << "\n\n Name : ";
                                cin >> n;
                                cout << "\n\n Price : ";
                                cin >> p;
                                cout << "\n\n Discount in % : ";
                                cin >> d;
                                file1 << " " << c << " " << n << " " << p << " " << d << "\n";
                                cout << "\n\n\n\t\tRecord Edit Successfully...";
                                found++;
                        }
                        else
                        {
                                file1 << " " << code << " " << name << " " << price << " " <<
discount << "\n";
                        }
                        file >> code >> name >> price >> discount;
```

```
                }
                file.close();
                file1.close();
                remove("product.txt");
                rename("product1.txt", "product.txt");
                if (found == 0)
                        cout << "\n\n Record Can't Found...";
        }
}
void bill::del() // delete function of bill class
{
        system("cls");
        fstream file, file1;
        int p_c, found = 0;
        cout << "\n\n\t\t\tDelete Product";
        cout << "\n\n Product Code : ";
        cin >> p_c;
        file.open("product.txt", ios::in);
        if (!file)
        {
                cout << "\n\n File openning error...";
        }
        else
        {
                file1.open("product1.txt", ios::app | ios::out);
                file >> code >> name >> price >> discount;
```

```
		while (!file.eof())
		{
			if (code == p_c)
			{
				cout << "\n\n Product Deleted Successfully...";
				found++;
			}
			else
			{
				file1 << " " << code << " " << name << " " << price << " " <<
discount << "\n";
			}
			file >> code >> name >> price >> discount;
		}
		file.close();
		file1.close();
		remove("product.txt");
		rename("product1.txt", "product.txt");
		if (found == 0)
			cout << "\n\n Record Can't Found...";
	}
}
void bill::show() // show function of bill class
{
	system("cls");
	fstream file;
```

```
	cout << "\n\n\t\t\tShow Products";
	file.open("product.txt", ios::in);
	if (!file)
	{
		cout << "\n\n File openning error...";
	}
	else
	{
		cout << "\n\n Code\tName\t\tPrice\t\tDiscount %";
		file >> code >> name >> price >> discount;
		while (!file.eof())
		{
			cout << "\n " << code << "\t " << name << "\t	" << price << "\t\t\t" <<
discount;
			file >> code >> name >> price >> discount;
		}
		file.close();
	}
}
void bill::list() // list function of bill class
{
	fstream file;
	file.open("product.txt", ios::in);
	cout << "\n\n=================================================\n";
	cout << "P.NO.\t\tNAME\t\tPRICE\n";
	cout << "=================================================\n";
```

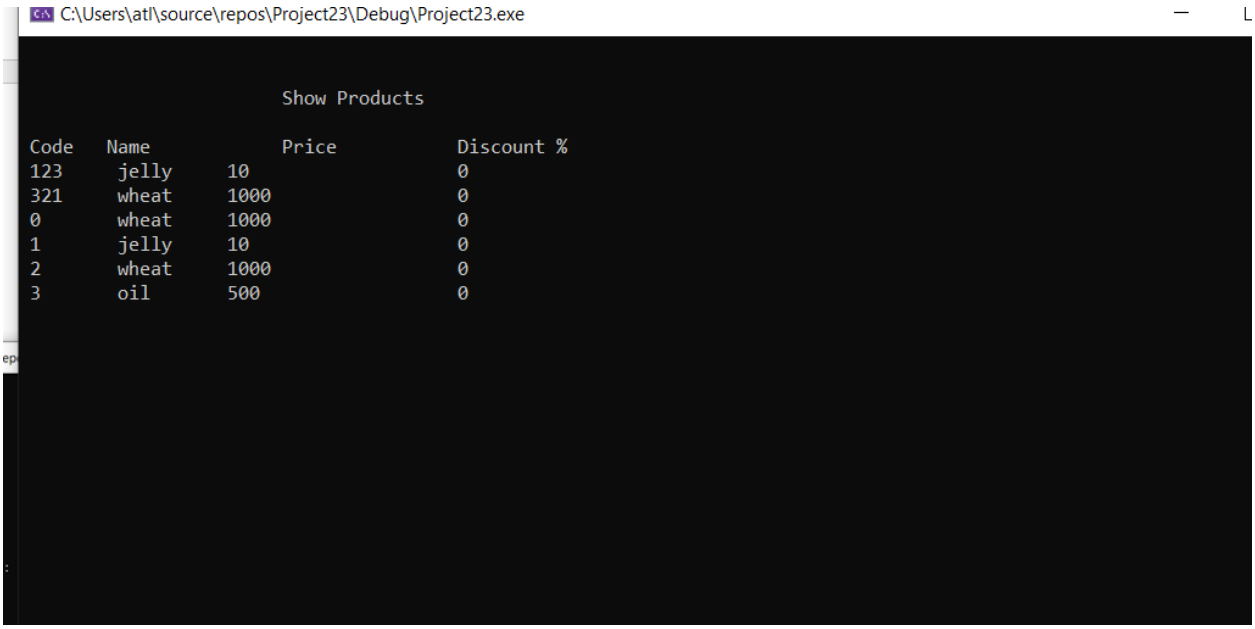
```
        file >> code >> name >> price >> discount;
        while (!file.eof())
        {
                cout << code << "\t\t" << name << "\t\t" << price << "\n";
                file >> code >> name >> price >> discount;
        }
        file.close();
}
void bill::invoice() // invoice function of bill class
{
        system("cls");
        fstream file;
        char choice;
        int o_c[50], o_q[50], c = 0;
        float amt = 0, dis = 0, total = 0;
        cout << "\n\n\t\t\t Invoice Generate";
        file.open("product.txt", ios::in);
        if (!file)
        {
                cout << "\n\n Data Base is Empty...";
        }
        else
        {
                file.close();
                list();
                cout << "\n============================";
```

```
        cout << "\n        PLACE YOUR ORDER";
        cout << "\n============================\n";
        do
        {
        p:
            cout << "\n\n Product Code : ";
            cin >> o_c[c];
            cout << "\n Product Quantity : ";
            cin >> o_q[c];
            for (int i = 0; i < c; i++)
            {
                if (o_c[c] == o_c[i])
                {
                    cout << "\n\n Duplicate Product Code...";
                    goto p;
                }
            }
            c++;
            cout << "\n\n Do You Want Add Another Product (Y,N) : ";
            cin >> choice;
        } while (choice == 'Y' || choice == 'y');
        system("cls");
        cout <<
"\n\n*******************************INVOICE**********************\n";
        cout << "\nPr No.\tPr Name\tQuantity \tPrice \tAmount \tAmount after
discount\n";
        for (int i = 0; i < c; i++)
```

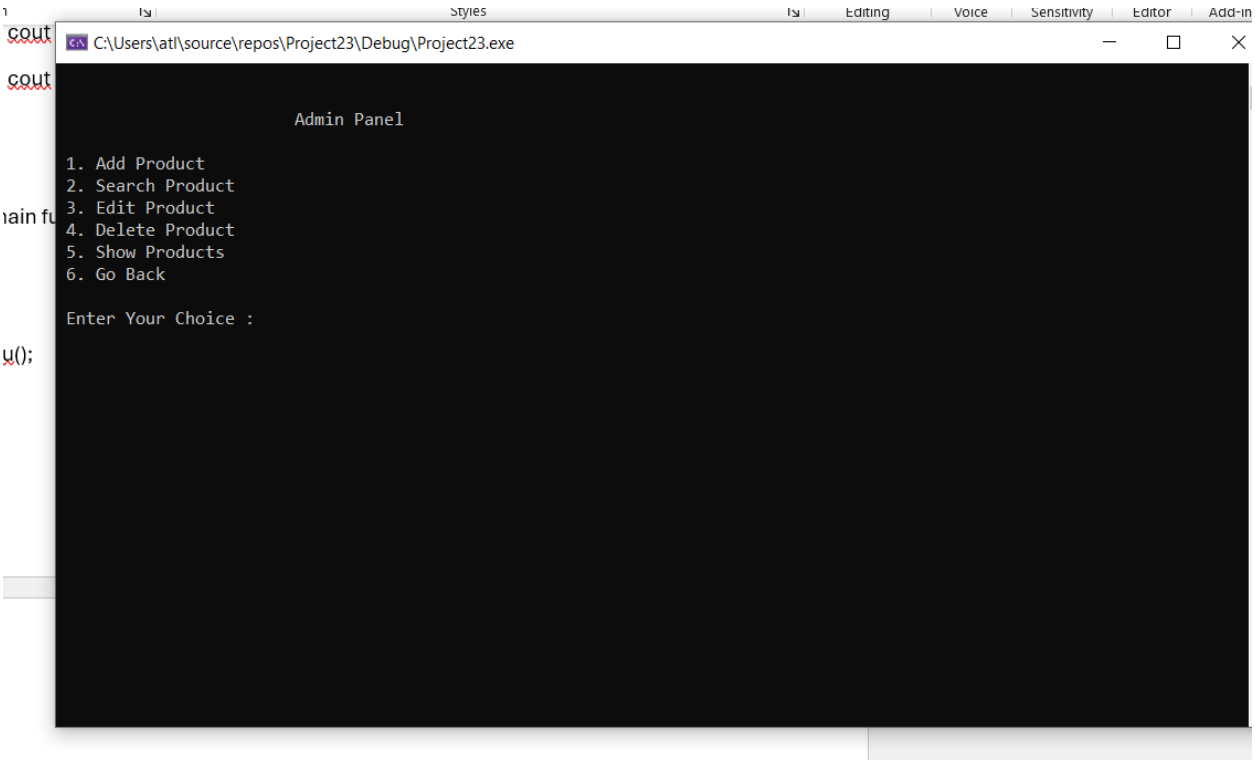
```
                {
                        file.open("product.txt", ios::in);
                        file >> code >> name >> price >> discount;
                        while (!file.eof())
                        {
                                if (code == o_c[i])
                                {
                                        amt = price * o_q[i];
                                        dis = amt - (amt / 100 * discount);
                                        total += dis;
                                        cout << "\n" << code << "\t" << name << "\t" << o_q[i] <<
"\t\t" << price << "\t" << amt << "\t\t" << dis;
                                }
                                file >> code >> name >> price >> discount;
                        }
                        file.close();
                }
                cout << "\n\n===================================";
                cout << "\n Total Amount : " << total;
        }
}
int main() // main function
{
        bill b;
        b.menu();
}
```

Output:

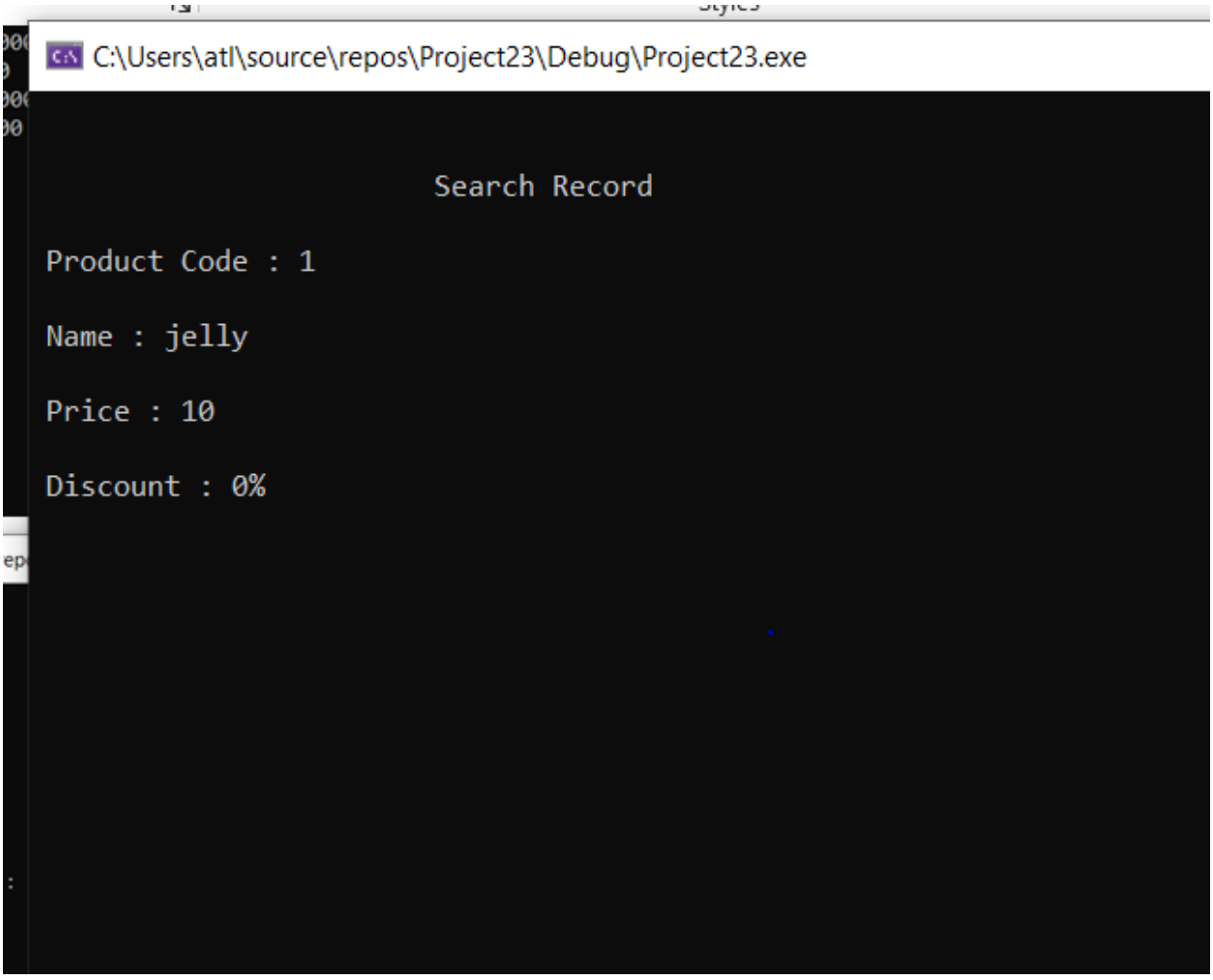
Show product:



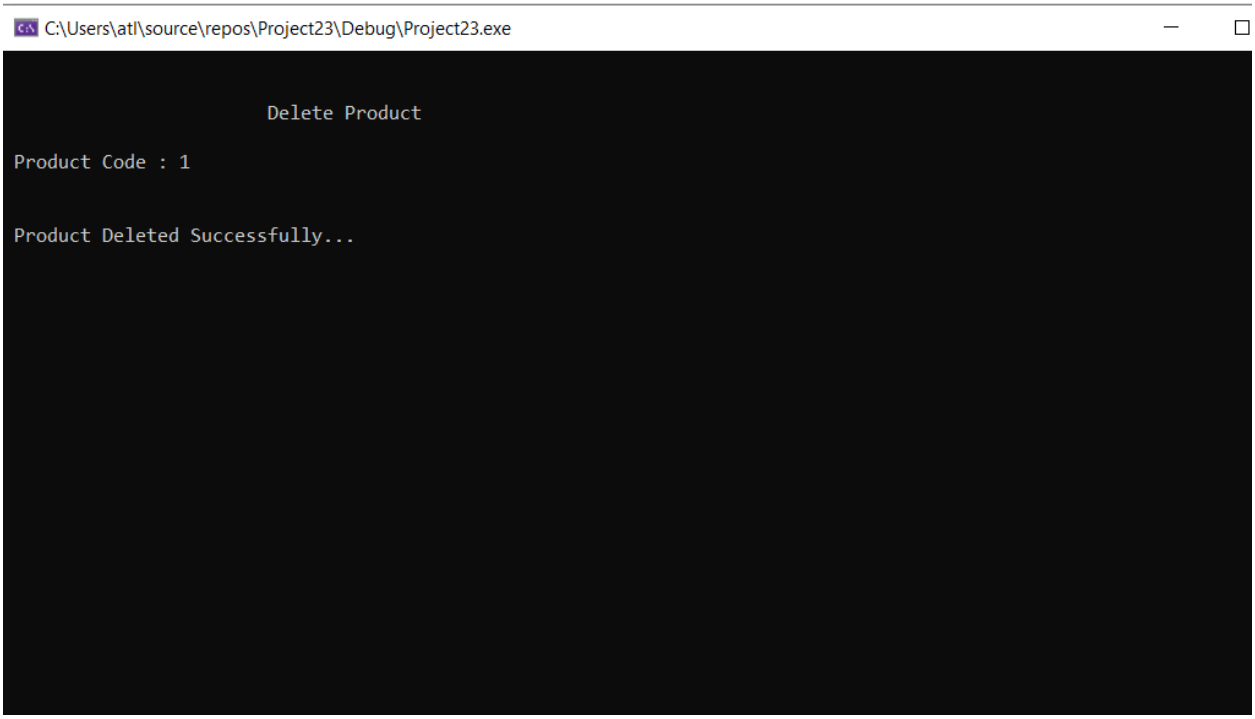
Admin Panel:



Search Record:



Delete Product:


C:\Users\atl\source\repos\Project23\Debug\Project23.exe
Delete Product
Product Code : 1
Product Deleted Successfully...