

```
//          HEADER FILE USED IN PROJECT
```

```
#include<conio.h>
#include<stdio.h>
#include<process.h>
#include<fstream.h>
#include<string.h>
```

```
//          CLASS USED IN PROJECT
```

```
class product
{
    int pno;
    char name[50];
    float price,qty,tax,dis;
public:
    void create_product()
    {
        cout<<"\n* Please Enter The Product No. of The Product: ";
        cin>>pno;
        cout<<"\n\n* Please Enter The Name of The Product:";
        gets(name);
        cout<<"\n* Please Enter The Price of The Product: ";
        cin>>price;
        cout<<"\n* Please Enter The Discount (%): ";
        cin>>dis;
    }

    void show_product()
    {
        cout<<"\n* The Product No. of The Product : "<<pno;
        cout<<"\n* The Name of The Product : ";
        puts(name);
        cout<<"\n* The Price of The Product : "<<price;
        cout<<"\n* Discount : "<<dis;
    }

    int  retpno()
    {return pno;}

    float retprice()
    {return price;}

    char* retname()
```

```

        {return name;}

    int retdis()
    {return dis;}

};    //class ends here


//    global declaration for stream object, object

fstream fp;
product pr;


//    function to write in file

void write_product()
{
    fp.open("Shop.dat",ios::out | ios::app);
    pr.create_product();
    fp.write((char*)&pr,sizeof(product));
    fp.close();
    cout<<"\n\n*** The Product Has Been Created *** ";
    getch();
}


//    function to read all records from file

void display_all()
{
    clrscr();
    cout<<"\n\n\n\t\t*** DISPLAY ALL RECORD !!!\n\n";
    fp.open("Shop.dat",ios::in);
    while(fp.read((char*)&pr,sizeof(product)))
    {
        pr.show_product();
        cout<<"\n\n===== \n";
        getch();
    }
}

```

```

    }
    fp.close();
    getch();
}

```

```

//      function to read specific record from file

```

```

void display_sp(int n)
{
    int flag=0;
    fp.open("Shop.dat",ios::in);
    while(fp.read((char*)&pr,sizeof(product)))
    {
        if(pr.retpno()==n)
        {
            clrscr();
            pr.show_product();
            flag=1;
        }
    }
    fp.close();
    if(flag==0)
        cout<<"\n\n***record not exist***";
    getch();
}

```

```

//      function to modify record of file

```

```

void modify_product()
{
    int no,found=0;
    clrscr();
    cout<<"\n\n\t***To Modify ";
    cout<<"\n\n\t* Please Enter The Product No. of The Product:";
    cin>>no;
    fp.open("Shop.dat",ios::in | ios::out);
    while(fp.read((char*)&pr,sizeof(product)) && found==0)
    {
        if(pr.retpno()==no)

```

```

        {
            pr.show_product();
            cout<<"\n* Please Enter The New Details of Product:"<<endl;
            pr.create_product();
            int pos=-1*sizeof(pr);
            fp.seekp(pos,ios::cur);
            fp.write((char*)&pr,sizeof(product));

            cout<<"\n\n\t***Record Updated***";
            found=1;
        }
    }
    fp.close();
    if(found==0)
        cout<<"\n\n\t*** Record Not Found *** ";
    getch();
}

//      function to delete record of product

void delete_product()
{
    int no;
    clrscr();
    cout<<"\n\n\n\t**Delete Record**";
    cout<<"\n\n* Please Enter The product no. of The Product You Want To Delete:";
    cin>>no;
    fp.open("Shop.dat",ios::in | ios::out);
    fstream fp2;
    fp2.open("Temp.dat",ios::out);
    fp.seekg(0,ios::beg);
    while(fp.read((char*)&pr,sizeof(product)))
    {
        if(pr.retpno()!=no)
        {
            fp2.write((char*)&pr,sizeof(product));
        }
    }
    fp2.close();
    fp.close();
    remove("Shop.dat");
    rename("Temp.dat","Shop.dat");
    cout<<"\n\n\t***Record Deleted ..";
}

```

```

    getch();
}

//      function to display all products price list

void menu()
{

    clrscr();
    fp.open("Shop.dat",ios::in);
    if(!fp)
    {
        cout<<"\n\nERROR!!! FILE COULD NOT BE OPEN\n\n\n*** Go To Admin Menu to
create File ***";
        cout<<"\n\n\n* Program is closing ....";
        getch();
        exit(0);
    }

    cout<<"\n\n\t\t***Product MENU***\n\n";
        cout<<"===== \n";
        cout<<"P.NO.\t\tNAME\t\t\t\t\tPRICE\n";
        cout<<"===== \n";

    while(fp.read((char*)&pr,sizeof(product)))
    {
        cout<<pr.retpno()<<"\t\t"<<pr.retname()<<"\t "<<pr.retprice()<<endl;
    }
    fp.close();
}

//      function to place order and generating bill for Products

void place_order()
{
    int  order_arr[50],quan[50],c=0;
    float amt,damt,total=0;
    char ch='Y';
    menu();
    cout<<"\n===== ";
    cout<<"\n  PLACE YOUR ORDER";
    cout<<"\n===== \n";
    do{
        cout<<"\n\n* Enter The Product No. Of The Product : ";

```



```
cout<<"\n\t%% %% %% %% %% %% %% %% %% %% %%";  
cout<<"\n\t%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%  
%%% %%%%%%%%% ";  
cout<<"\n\n\t\t\t $$$$$$$$ $$$$$$ ";  
cout<<"\n\t\t\t $$ $ $" ;  
cout<<"\n\t\t\t $$ $$$$$ " ;  
  
cout<<"\n\n\n\t\t*****SHOP MANAGEMENT SYSTEM *****";  
cout<<"\n\n\n\t\tBY :-";  
cout<<"\n\n\n\t\t* Aryan Rastogi"<<"\t (DELHI TECHNOLOGICAL  
UNIVERSITY)";  
cout<<" \n\n\n\t\t!!!!press 'ENTER' to continue:!!!! ";  
  
getch();  
  
}  
struct administrator //structure used for verifying password  
{  
    char user_name[10];  
    char password[10];  
}admin;  
  
void assign_user()  
{  
    clrscr();  
strcpy(admin.user_name, "ShopM");  
strcpy(admin.password, "12345");  
}  
int verify_password()  
{    clrscr();  
    char u_name[10];  
    char u_pwd[10],temp[2];  
    int x=1;  
    cout<<"\n\n\n\n\n\n\n";  
    cout<<"\n\t\t * Enter user name :";  
    cin>>u_name;  
    cout<<"\n\n\n\t\t * Enter Password : ";  
    cin>>u_pwd;  
    x=strcmp(admin.user_name,u_name);  
    if (x==0)  
    {  
        x=strcmp(admin.password,u_pwd);  
    }  
    cin.getline(temp,2);  
    return(x);
```

```
//      ADMINSTRATOR MENU FUNCTION

void admin_menu()
{
    clrscr();
    char ch2;
    cout<<"\n\n\n";

cout<<"\t\t%%%%%%%%%%%"<br>
"<<endl;
    cout<<"\t\t          ***ADMIN MENU***           %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     1.CREATE PRODUCT                      %"<<endl;

    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     2.DISPLAY ALL PRODUCTS                %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     3.QUERY                                  %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     4.MODIFY PRODUCT                        %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     5.DELETE PRODUCT                       %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     6.VIEW PRODUCT MENU                     %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     7.BACK TO MAIN MENU                    %"<<endl;
    cout<<"\t\t                                %"<<endl;
    cout<<"\t\t     *Please Enter Your Choice (1-7)         %"<<endl;
    cout<<"\t\t                                %"<<endl;


cout<<"\t\t%%%%%%%%%%%"<br>
"<<endl;
    ch2=getche();
    switch(ch2)
    {
        case '1': clrscr();
                   write_product();
                   break;
        case '2': display_all();break;
        case '3':
                   int num;
                   clrscr();
                   cout<<"\n\n\t* Please Enter The Product No.: ";
                   cin>>num;
```



```

        display_sp(num);
        break;
    case '4': modify_product();break;
    case '5': delete_product();break;
    case '6': menu();
                getch();
    case '7': break;
    default:cout<<"\a";
}
}

//      THE MAIN FUNCTION OF PROGRAM

void main()
{
    char ch;
    intro();
    do

    {
        clrscr();
        cout<<"\n\n\n";
        cout<<"\t\t
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %      ***MAIN MENU***          %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %      01. CUSTOMER              %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %      02. ADMINISTRATOR          %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %      03. EXIT                  %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t % Please Select Your Option (1-3): %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t %                                %"<<endl;
        cout<<"\t\t
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%"<<endl;
        ch=getche();
        switch(ch)
        {

```

```

        case '1': clrscr();
                place_order();
                getch();
                break;
        case '2': int p;
                assign_user();
                p=verify_password();
                if(p==0)
                {
                        admin_menu();
                }
                else
                {
                        cout<<"\n\n\n\t\t***!!! You are Not a Valid User !!!***";
                        getch();
                }
                break;
        case '3':exit(0);
        default :cout<<"\a";

    }
}while(ch!='3');

}

//

```

# Welcome

[illegible]

```

$$$$$$$$$  $$$$$$
      $$      $  $
      $$      $$$$$$

```

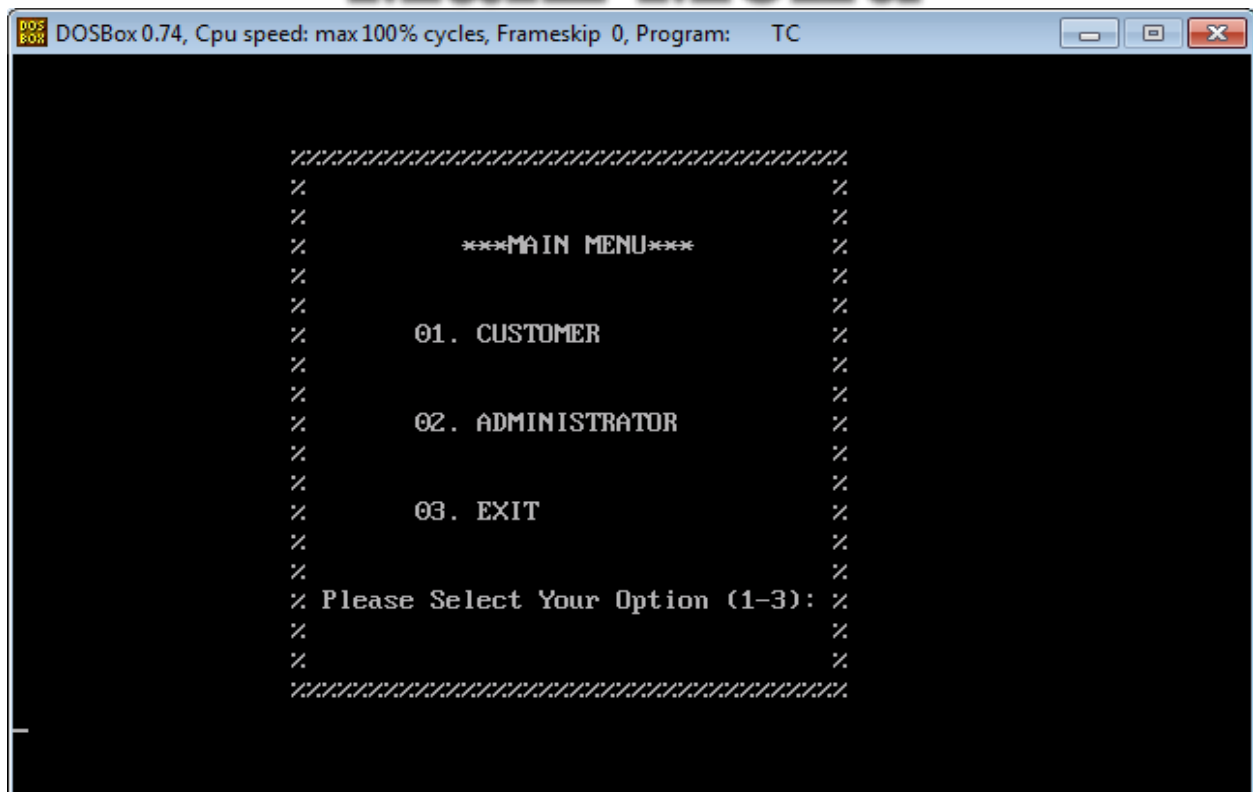
\*\*\*\*\* SHOP MANAGEMENT SYSTEM \*\*\*\*\*

BY :-

\* Aryan Rastogi (DELHI TECHNOLOGICAL UNIVERSITY)

!!!!press 'ENTER' to continue:!!!!

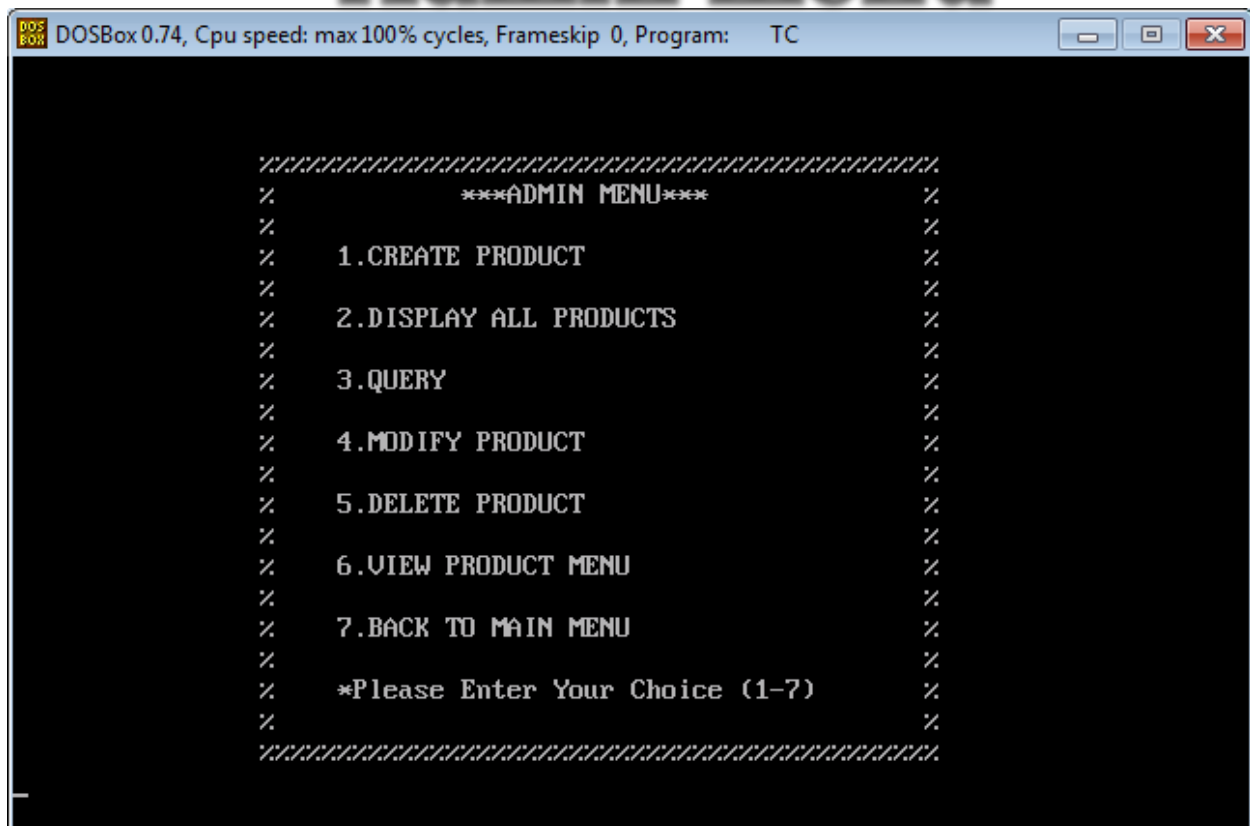
# Main Menu



# Verifying Name & Password

```
* Enter user name :ShopM  
  
* Enter Password : *****_
```

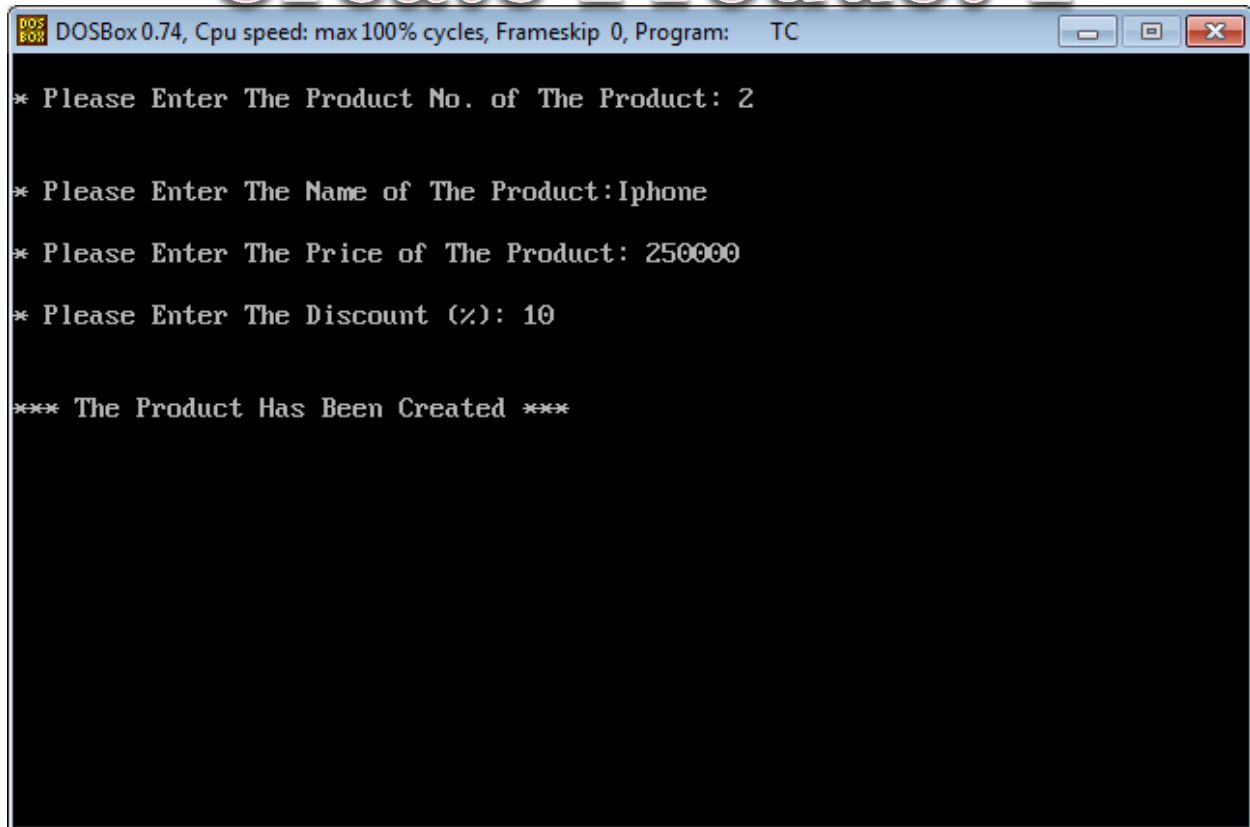
## Admin menu



The screenshot shows a DOSBox window titled "DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC". The window contains a text-based menu for an administrator. The menu is enclosed in a decorative border of slashes (/). The menu options are listed as follows:

```
*****ADMIN MENU*****  
1.CREATE PRODUCT  
2.DISPLAY ALL PRODUCTS  
3.QUERY  
4.MODIFY PRODUCT  
5.DELETE PRODUCT  
6.VIEW PRODUCT MENU  
7.BACK TO MAIN MENU  
*Please Enter Your Choice (1-7)
```

# Create Product 1



DOSBox 0.74, Cpu speed: max100% cycles, Frameskip 0, Program: TC

```
* Please Enter The Product No. of The Product: 2

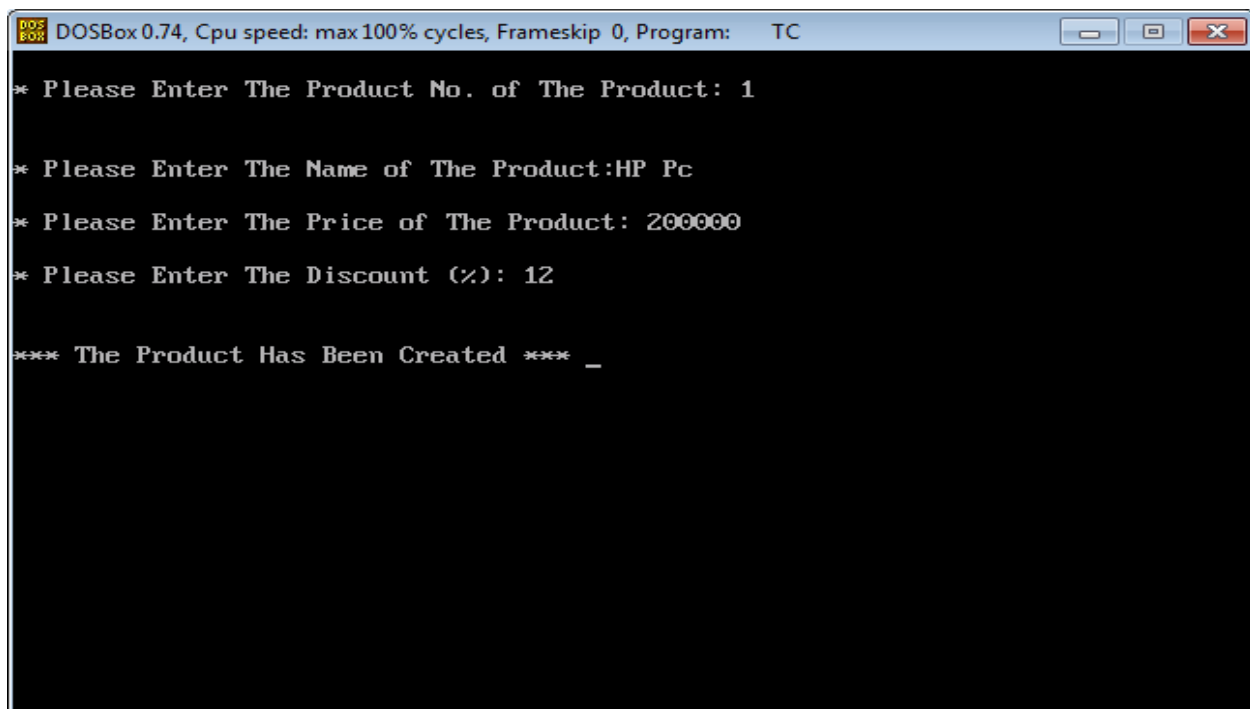
* Please Enter The Name of The Product: Iphone

* Please Enter The Price of The Product: 250000

* Please Enter The Discount (%): 10

*** The Product Has Been Created ***
```

# Create Product 2



DOSBox 0.74, Cpu speed: max100% cycles, Frameskip 0, Program: TC

```
* Please Enter The Product No. of The Product: 1

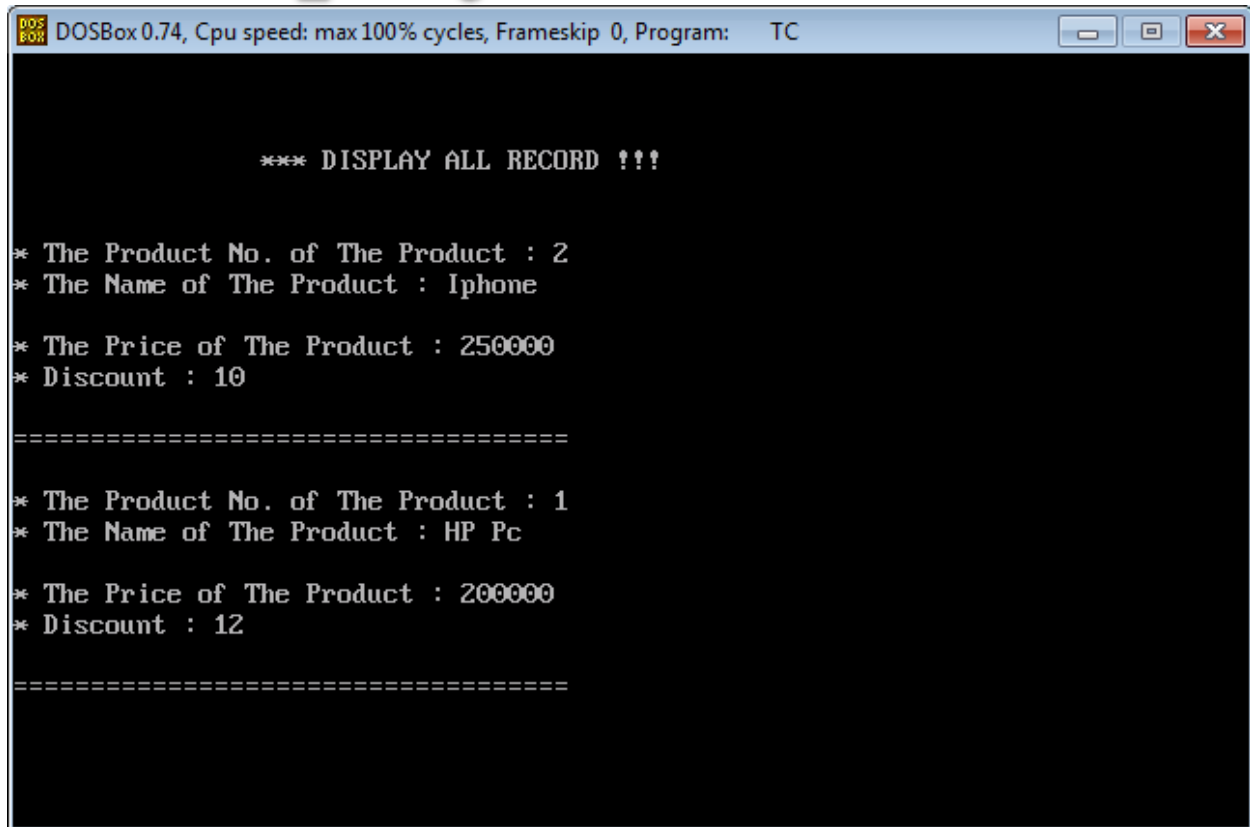
* Please Enter The Name of The Product: HP Pc

* Please Enter The Price of The Product: 200000

* Please Enter The Discount (%): 12

*** The Product Has Been Created *** _
```

# Display All Products



DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

```
*** DISPLAY ALL RECORD !!!

* The Product No. of The Product : 2
* The Name of The Product : Iphone

* The Price of The Product : 250000
* Discount : 10

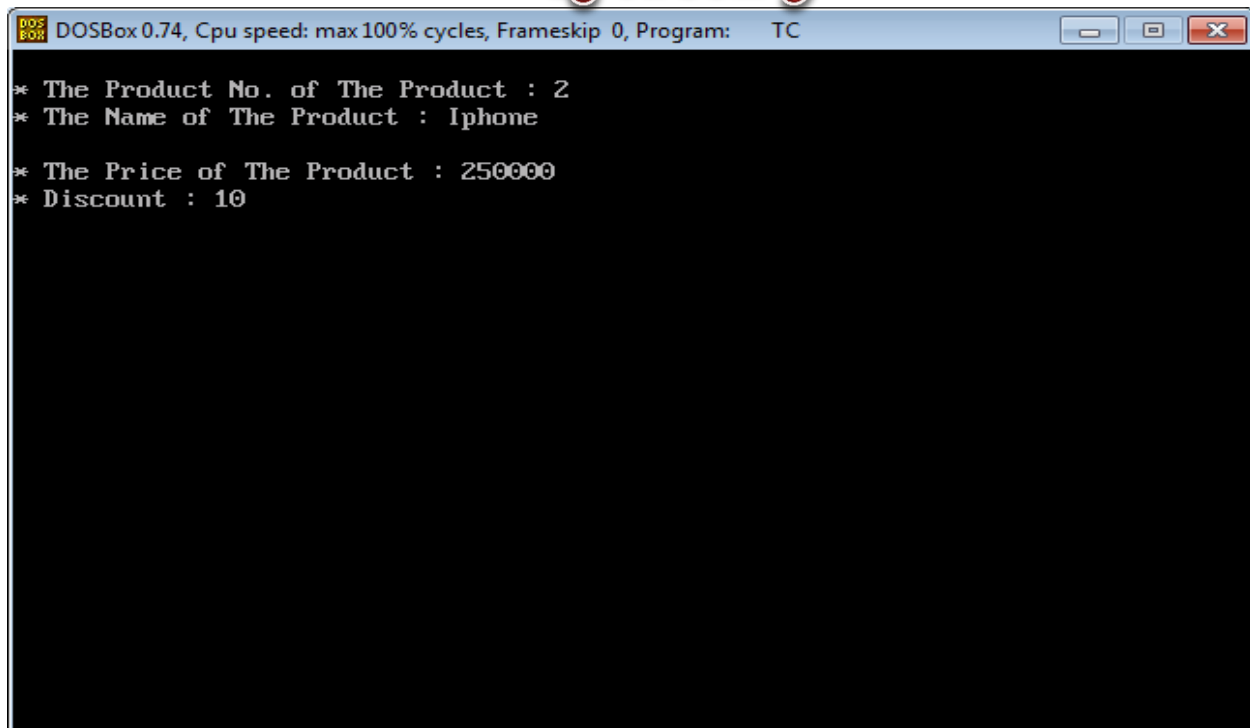
=====

* The Product No. of The Product : 1
* The Name of The Product : HP Pc

* The Price of The Product : 200000
* Discount : 12

=====
```

## Quary

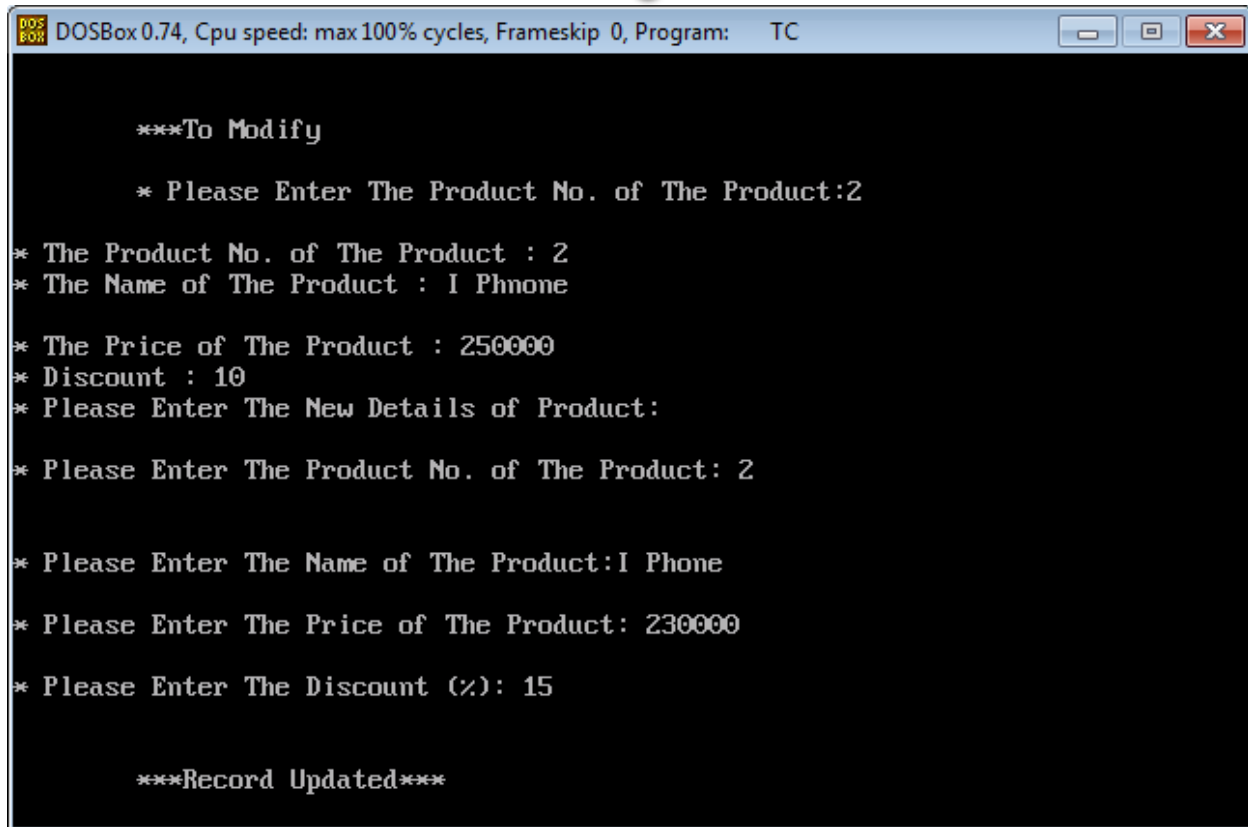


DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

```
* The Product No. of The Product : 2
* The Name of The Product : Iphone

* The Price of The Product : 250000
* Discount : 10
```

# Modify Record



```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

***To Modify

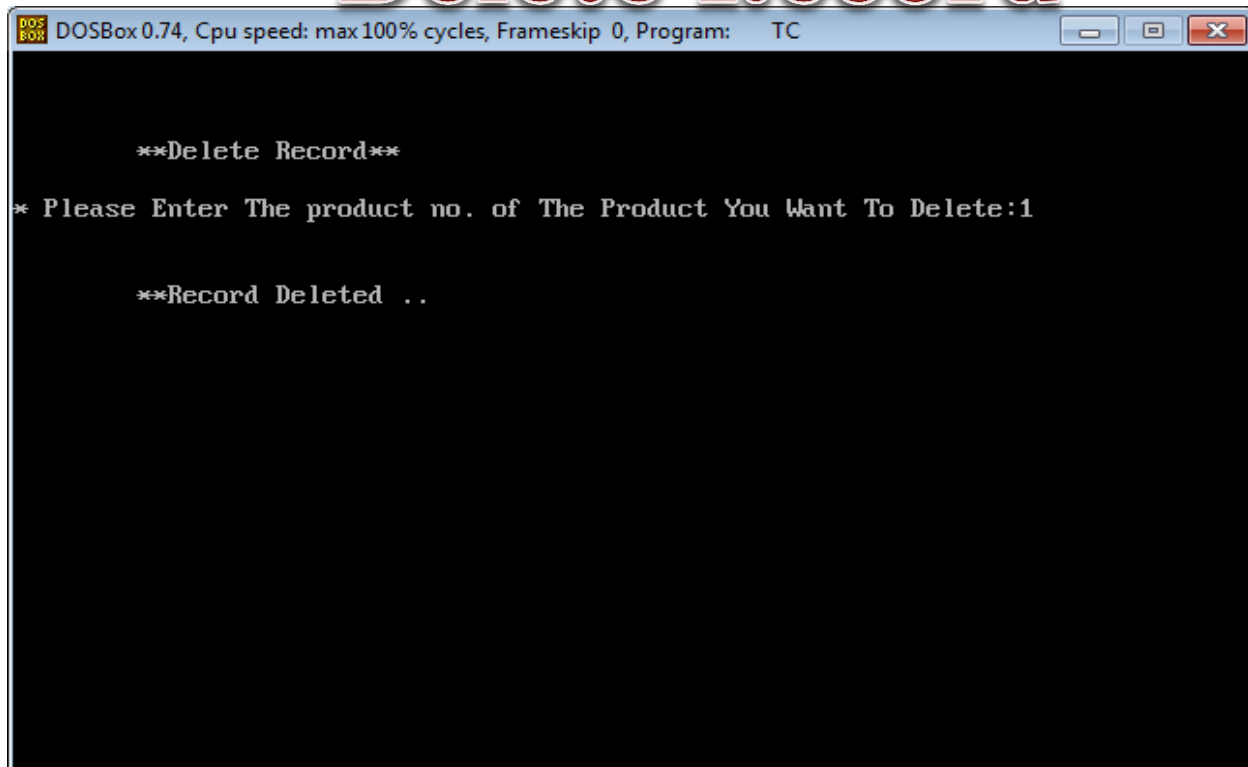
* Please Enter The Product No. of The Product:2

* The Product No. of The Product : 2
* The Name of The Product : I Phnone
* The Price of The Product : 250000
* Discount : 10
* Please Enter The New Details of Product:
* Please Enter The Product No. of The Product: 2

* Please Enter The Name of The Product:I Phone
* Please Enter The Price of The Product: 230000
* Please Enter The Discount (%): 15

***Record Updated***
```

# Delete Record



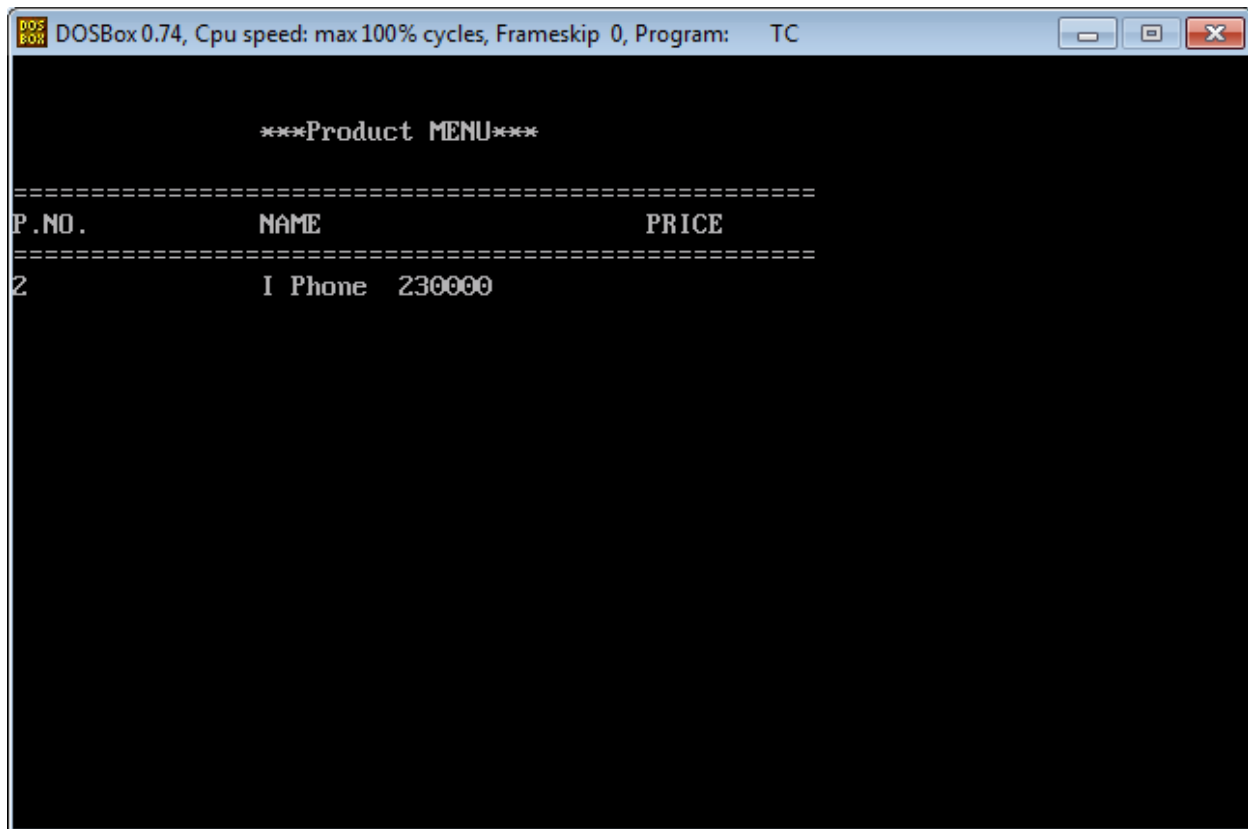
```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

**Delete Record**

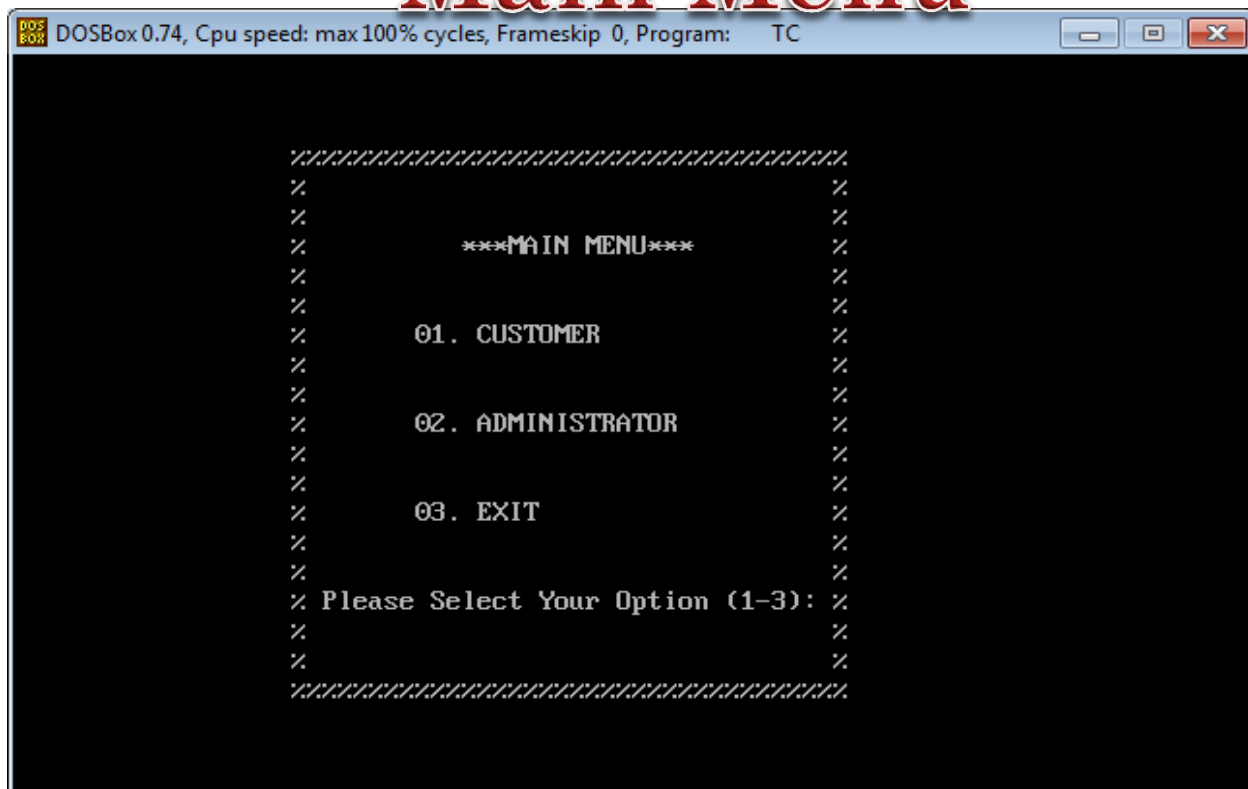
* Please Enter The product no. of The Product You Want To Delete:1

**Record Deleted ..
```

# Product Menu



# Main Menu





# Customer

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

***Product MENU***

=====
P.NO.      NAME      PRICE
=====
2          I Phone  230000

=====
PLACE YOUR ORDER
=====

* Enter The Product No. Of The Product : 2
* Quantity in number : 4
* Do You Want To Order Another Product ? (y/n):n

**Thank You For Placing The Order.....
```

# Receipt

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

*****RECIEPT*****

Pr No.  Name      Quantity  Price  Amount  Discounted amount
2       I Phone   4        230000  920000  782000

* TOTAL = 782000_
```