#include<fstream.h>

#include<conio.h>

#include<stdio.h>

#include<string.h>

class Bakery

{

int code;

char desc[15];

int price;

int qty;

public:

Bakery retObject(int code, int &found);

void genCode();

void modifyCode();

void addStock();

void showItemList();

void searchByCode();

void updateRec(int code, int qty);

int retCode(){return code;}

char\* retDesc(){return desc;}

int retPrice(){return price;}

int retQty(){return qty;}

};

class Invoice

{

int ibno;

int Icode;

char Idesc[15];

int Iprice;

int Iqty;

int Iamount;

public:

void raiseBill();

void salesTillDate();

};

void menu(int x1, int y1, int x2, int y2, int line);

void codeGenScr();

void reportScr();

char mainFile[]="bake.dat";

char salesFile[]="sales.dat";

void main()

{

clrscr();

// fstream f1(mainFile, ios::binary | ios::out);

// f1.close();

// fstream f2(salesFile, ios::binary | ios::out);

// f2.close();

Bakery b;

Invoice I;

int ch;

do

{

clrscr();

menu(20,3,60,19,1);

gotoxy(33,4);

cout<<"THE ARTSY TARTSY";

gotoxy(28,7);

cout<<"1. Code Management";

gotoxy(28,9);

cout<<"2. Stock Management";

gotoxy(28,11);

cout<<"3. Billing";

gotoxy(28,13);

cout<<"4. Reports";

gotoxy(28,15);

cout<<"0. Exit";

gotoxy(28,17);

cout<<"Enter your choice :";

cin>>ch;

switch(ch)

{

case 1: codeGenScr();

break;

case 2: b.addStock();

break;

case 3: I.raiseBill();

break;

case 4: reportScr();

break;

}

}while(ch!=0);

}

void menu(int x1, int y1, int x2, int y2, int line)

{

char hr=205,vr=186,c1=201,c2=187,c3=204,c4=185,c5=200,c6=188;

for(int r=x1; r<x2; r++)

{

gotoxy(r,y1);

cout<<hr;

if(line==1)

{

gotoxy(r,y1+2);

cout<<hr;

}

gotoxy(r,y2);

cout<<hr;

}

for(int c=y1; c<y2; c++)

{

gotoxy(x1,c);

cout<<vr;

gotoxy(x2,c);

cout<<vr;

}

gotoxy(x1,y1);

cout<<c1;

gotoxy(x2,y1);

cout<<c2;

if(line==1)

{

gotoxy(x1,y1+2);

cout<<c3;

gotoxy(x2,y1+2);

cout<<c4;

}

gotoxy(x1,y2);

cout<<c5;

gotoxy(x2,y2);

cout<<c6;

}

void Bakery::genCode()

{

int ch, CD=0;

char ans, more;

Bakery b,bb;

fstream f1;

f1.open(mainFile, ios::binary | ios::in);

if(!f1)

CD=0;

else

{

while(f1.read((char\*)&b, sizeof(b)))

CD=b.code;

}

f1.close();

do

{

clrscr();

menu(20,3,60,12,1);

gotoxy(28,4);

cout<<"New Code Generation";

gotoxy(28,7);

cout<<"New code is :"<<CD+1;

gotoxy(28,8);

cout<<"Enter Desc. :";

gets(bb.desc);

gotoxy(28,9);

cout<<"Enter Price :";

cin>>bb.price;

bb.qty=0;

gotoxy(25,14);

cout<<"Do you want to Save it (y/n)?:";

cin>>ans;

if(ans=='Y'||ans=='y')

{

CD++;

bb.code=CD;

fstream f2;

f2.open("bake.dat", ios::binary | ios::app);

f2.write((char\*)&bb, sizeof(bb));

f2.close();

}

gotoxy(22,15);

cout<<"Do you want to Save More Records (y/n)?:";

cin>>more;

}while(more=='y' || more=='Y');

}

void Bakery::modifyCode()

{

clrscr();

int CODE,found=0;

Bakery b;

fstream f1;

f1.open("bake.dat", ios::binary | ios::in | ios::out);

menu(20,3,60,15,1);

gotoxy(31,4);

cout<<"Code Modification";

gotoxy(25,7);

cout<<"Enter Code to be modified :";

cin>>CODE;

while(f1.read((char\*)&b, sizeof(b)))

{

if(CODE==b.code)

{

found=1;

gotoxy(30,9);

cout<<"Desc : "<<b.desc;

gotoxy(30,10);

cout<<"Price: "<<b.price;

gotoxy(30,12);

cout<<"Enter Desc. : ";

cin>>b.desc;

gotoxy(30,13);

cout<<"Enter Price : ";

cin>>b.price;

int n=-sizeof(b);

f1.seekp(n, ios::cur);

f1.write((char\*)&b, sizeof(b));

}

}

f1.close();

if(found==0)

{

gotoxy(30,16);

cout<<"No such Record!!!";

}

}

void Bakery::addStock()

{

clrscr();

int CODE,found=0, QTY;

Bakery b;

fstream f1;

f1.open("bake.dat", ios::binary | ios::in | ios::out);

menu(20,3,60,14,1);

gotoxy(36,4);

cout<<"Add Stock";

gotoxy(30,7);

cout<<"Enter Code : ";

cin>>CODE;

while(f1.read((char\*)&b, sizeof(b)))

{

if(CODE==b.code)

{

found=1;

gotoxy(30,9);

cout<<"Description : "<<b.desc;

found=1;

gotoxy(30,10);

cout<<"Old Quantity: "<<b.qty;

gotoxy(30,11);

cout<<"Enter QTY. : ";

cin>>QTY;

b.qty=b.qty+QTY;

gotoxy(30,12);

cout<<"New QTY. is : "<<b.qty;

int n=-sizeof(b);

f1.seekp(n, ios::cur);

f1.write((char\*)&b, sizeof(b));

}

}

f1.close();

if(found==0)

{

gotoxy(32,14);

cout<<"No such Record!!!";

}

gotoxy(26,15);

cout<<"<Press any key to continue!!!>";

getch();

}

void codeGenScr()

{

Bakery b;

int ch;

clrscr();

menu(20,3,60,15,1);

gotoxy(30,4);

cout<<"New Code Generation";

gotoxy(30,7);

cout<<"1. Generate a Code";

gotoxy(30,9);

cout<<"2. Modify a Code";

gotoxy(30,11);

cout<<"0. Back";

gotoxy(30,13);

cout<<"Enter choice :";

cin>>ch;

switch(ch)

{

case 1: b.genCode();

break;

case 2: b.modifyCode();

break;

}

getch();

}

void reportScr()

{

int ch;

Bakery b;

Invoice i;

clrscr();

menu(20,3,60,17,1);

gotoxy(36,4);

cout<<"Reports";

gotoxy(28,7);

cout<<"1. List of Items";

gotoxy(28,9);

cout<<"2. Search by code";

gotoxy(28,11);

cout<<"3. Total Sales";

gotoxy(28,13);

cout<<"0. Exit";

gotoxy(28,15);

cout<<"Enter choice : ";

cin>>ch;

switch(ch)

{

case 1: b.showItemList();

break;

case 2: b.searchByCode();

break;

case 3: i.salesTillDate();

break;

}

getch();

}

void Bakery::showItemList()

{

Bakery b;

int ch, row=5, ctr=0;

clrscr();

gotoxy(33,1);

cout<<"List of Items";

menu(15,2,65,20,1);

gotoxy(17,3);

cout<<"Code Description Price Qty";

fstream fin(mainFile, ios::binary | ios::in);

while(fin.read((char\*)&b, sizeof(b)))

{

ctr++;

gotoxy(18,row);

cout<<b.code;

gotoxy(25,row);

cout<<b.desc;

gotoxy(48,row);

cout<<b.price;

gotoxy(60,row);

cout<<b.qty;

row++;

}

fin.close();

gotoxy(28,22);

cout<<"Total number of Records :"<<ctr;

gotoxy(26,23);

cout<<"<press any key to continue!!!>";

}

void Bakery::searchByCode()

{

Bakery b;

int ch, CODE, found=0;

clrscr();

gotoxy(33,6);

cout<<"Search Item by Code";

menu(23,7,58,17,0);

gotoxy(27,9);

cout<<"Enter code to be searched : ";

cin>>CODE;

fstream fin(mainFile, ios::binary | ios::in);

while(fin.read((char\*)&b, sizeof(b)))

{

if(b.code==CODE)

{

found=1;

gotoxy(30,11);

cout<<"Desc : "<<b.desc;

gotoxy(30,13);

cout<<"Price: "<<b.price;

gotoxy(30,15);

cout<<"Qty. : "<<b.qty;

}

}

fin.close();

if(found==0)

{

gotoxy(35,10);

cout<<"No such Code!!!";

}

gotoxy(26,19);

cout<<"<press any key to continue!!!>";

}

void Invoice::raiseBill()

{

Invoice I,iObj[10];

Bakery b,bk;

int ch, found,n,row=6, BNO=0,CODE,PRICE,QTY,Qt,AMT,TOTAL;

char DESC[15];

clrscr();

{

Invoice in;

fstream fin1(salesFile, ios::binary | ios::in);

while(fin1.read((char\*)&in, sizeof(in)))

BNO=in.ibno;

BNO++;

fin1.close();

}

gotoxy(33,1);

cout<<"Invoicing";

gotoxy(15,2);

cout<<"Bill No :"<<BNO;

menu(15,18,65,18,0);

menu(15,3,65,20,1);

gotoxy(17,4);

cout<<"Code Description U/Price Qty Amount";

TOTAL=0;

n=0;

do

{

gotoxy(18,row);

cin>>CODE;

bk=b.retObject(CODE, found);

if(found==1)

{

Qt=bk.retQty();

gotoxy(17,21);

cout<<"Present Qty="<<Qt;

strcpy(DESC,bk.retDesc());

gotoxy(25,row);

cout<<DESC;

PRICE=bk.retPrice();

gotoxy(44,row);

cout<<PRICE;

gotoxy(53,row);

cin>>QTY;

AMT=PRICE\*QTY;

gotoxy(59,row);

cout<<AMT;

TOTAL+=AMT;

gotoxy(59,19);

cout<<TOTAL;

iObj[n].ibno=BNO;

iObj[n].Icode=CODE;

strcpy(iObj[n].Idesc,DESC);

iObj[n].Iprice=PRICE;

iObj[n].Iqty=QTY;

iObj[n].Iamount=AMT;

n++;

row++;

}

else if(found==0 && CODE!=0)

{

gotoxy(18,row);

cout<<" ";

gotoxy(35,21);

cout<<"Wrong code!!!";

getch();

}

}while(CODE!=0);

char yn;

gotoxy(22,22);

cout<<"If you want to SAVE this Bill(y/n)?:";

cin>>yn;

if(yn=='y'||yn=='Y')

{

Bakery b;

int C,Q;

fstream fout(salesFile, ios::binary | ios::app);

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

{

fout.write((char\*)&iObj[i], sizeof(iObj[i]));

b.updateRec(iObj[i].Icode, iObj[i].Iqty);

}

fout.close();

}

}

Bakery Bakery::retObject(int CODE, int &found)

{

Bakery b;

found=0;

fstream fin(mainFile, ios::binary | ios::in);

while(fin.read((char\*)&b, sizeof(b)))

{

if(CODE==b.code)

{

found=1;

break;

}

}

fin.close();

return b;

}

void Bakery::updateRec(int CD, int QT)

{

Bakery b;

fstream f1(mainFile, ios::binary | ios::in | ios::out);

while(f1.read((char\*)&b, sizeof(b)))

{

if(b.code==CD)

{

int n=-sizeof(b);

f1.seekp(n, ios::cur);

b.qty=b.qty-QT;

f1.write((char\*)&b, sizeof(b));

}

}

f1.close();

}

void Invoice::salesTillDate()

{

Invoice I;

int total=0;

clrscr();

menu(25,5,55,9,0);

fstream fin(salesFile, ios::binary | ios::in);

while(fin.read((char\*)&I, sizeof(I)))

total+=I.Iamount;

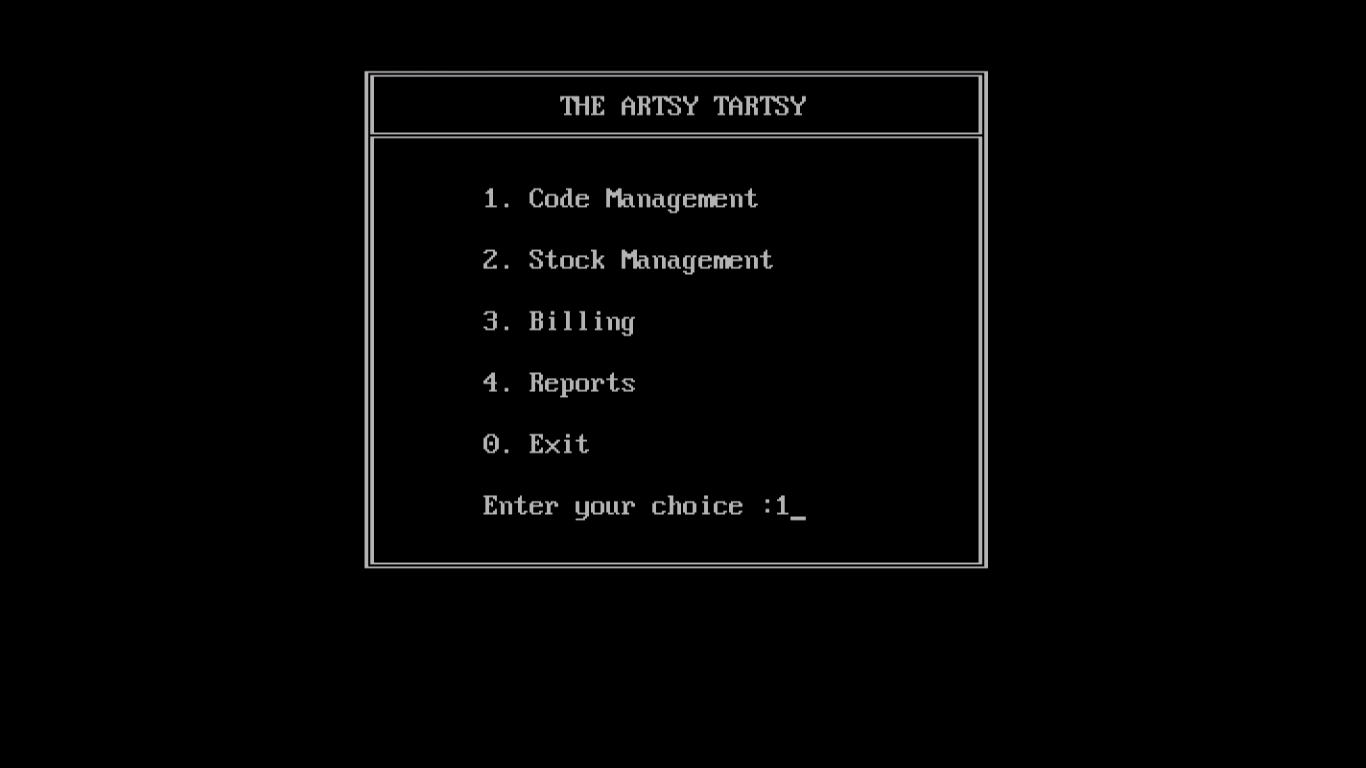
gotoxy(29,7);

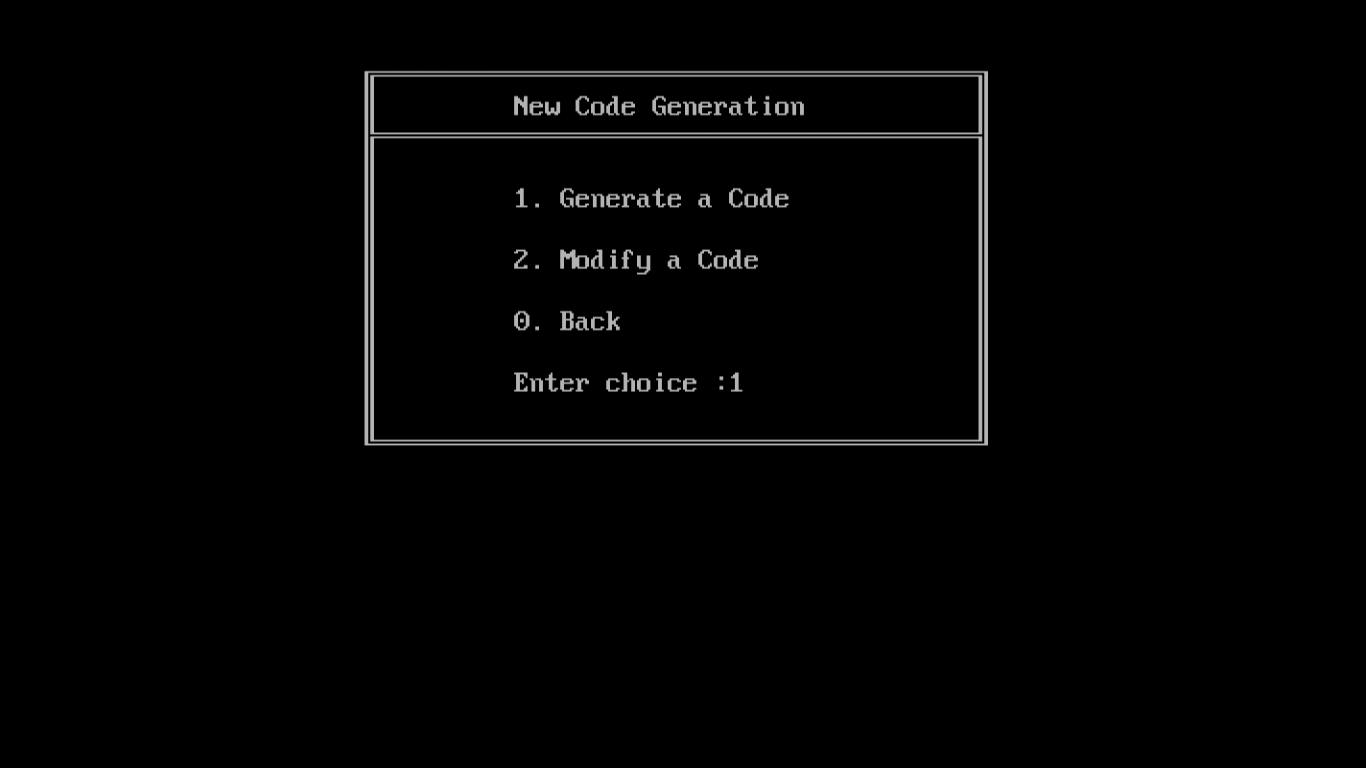
cout<<"Total Sales Rs.: "<<total<<"/-";

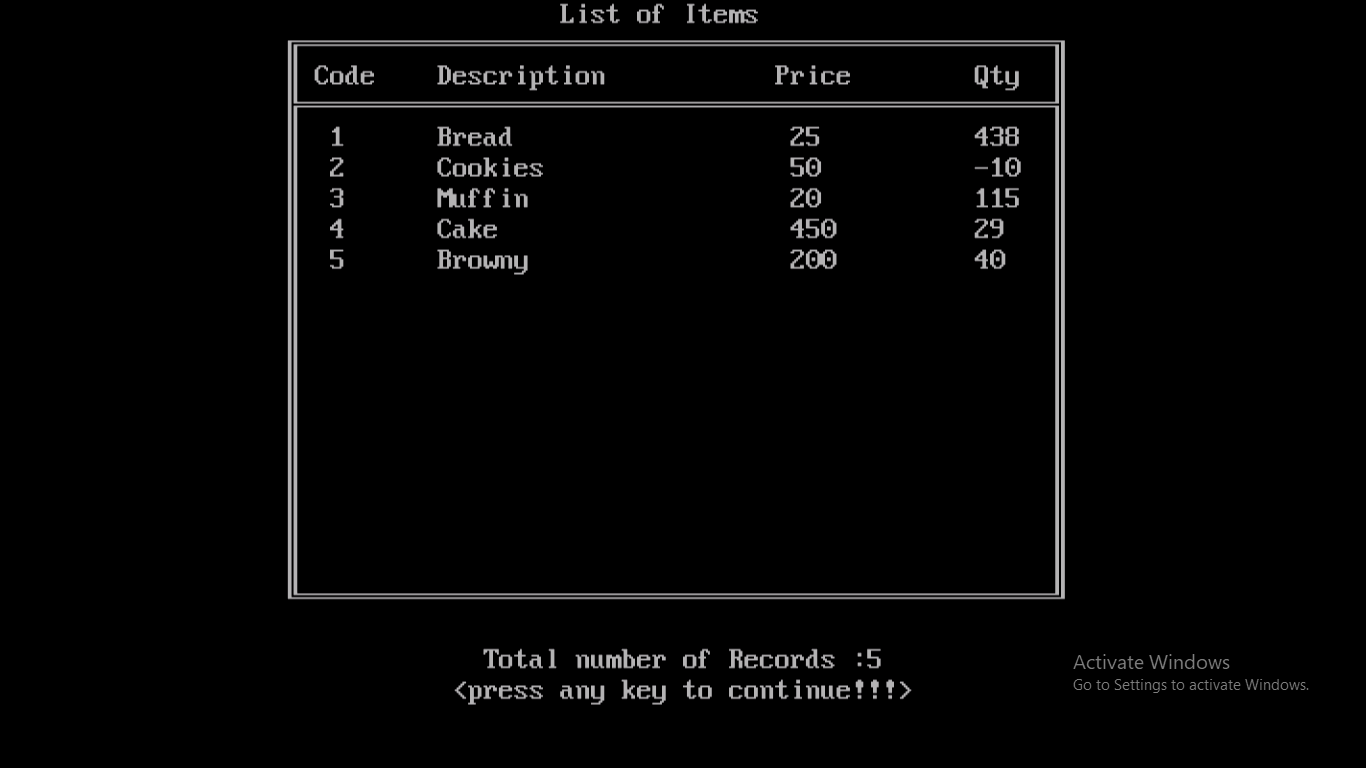
fin.close();

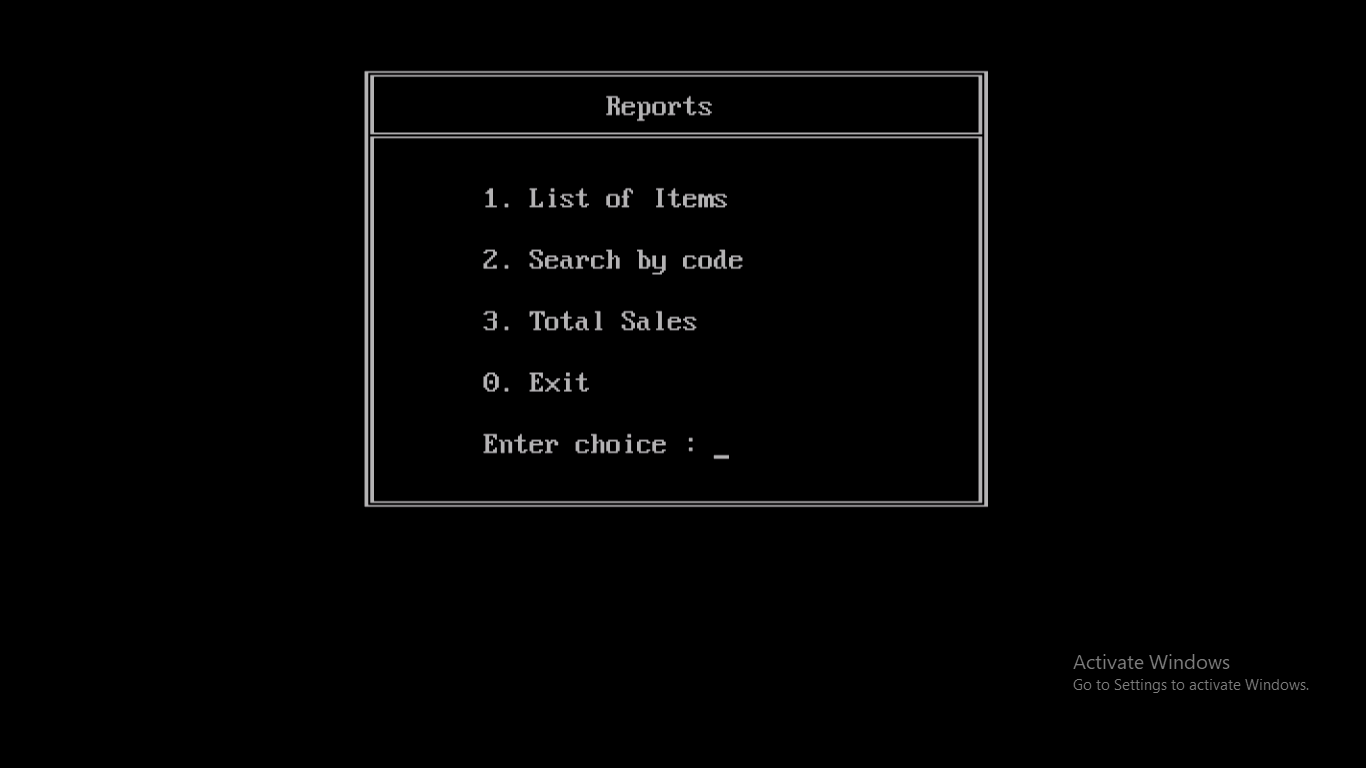
}

**OUT PUT**

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