



BANK

SYNOPSIS

This project titled 'BANK MANAGEMENT SYSTEM' is a banking system where a Customer can submit his/her deposit amount to bank if he/she has an account or can create a new account in this bank. Customer can also view the status of his/her bank account, can view account balance, can modify and delete it

The user can perform the following functions :

- ✓ KEEP RECORD OF DAILY BANKING TRANSACTIONS
- ✓ OPEN ANY NO. OF ACCOUNTS
- ✓ VIEW THE LIST OF ALL ACCOUNTS
- ✓ CAN DO BANKING TRANSACTIONS (DEPOSIT / WITHDRAW)
- ✓ MODIFY ANY ACCOUNT
- ✓ DELETE ANY ACCOUNT

This project has been developed by taking the user's needs and expectations into account.

SYSTEM REQUIREMENTS

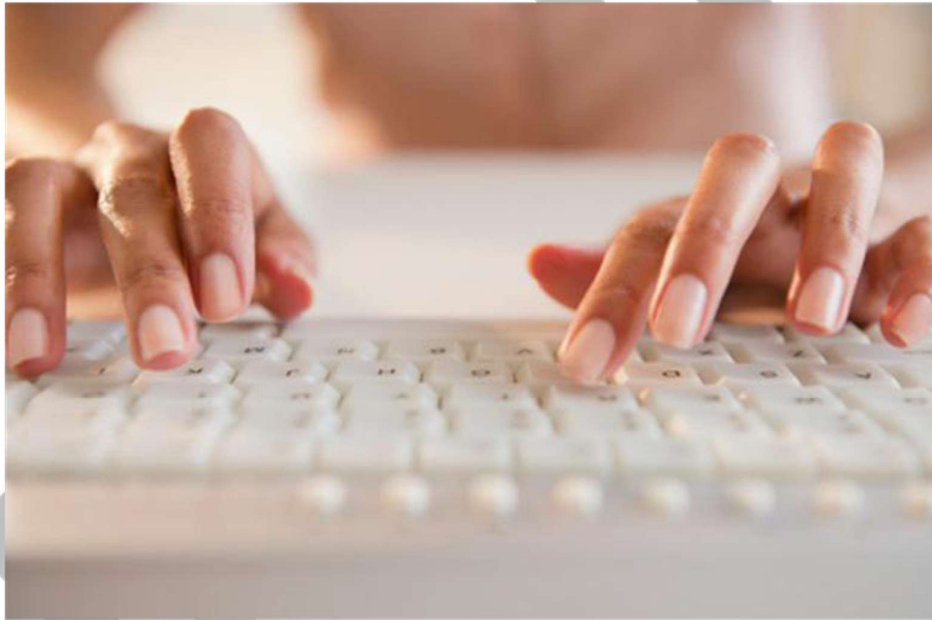
HARDWARE REQUIREMENTS :

- Intel Pentium II Processor or higher
- 128 MB of RAM or higher
- 15" CRT / TFT / LCD color monitor
- 102 keys keyboard
- Mouse

SOFTWARE REQUIREMENTS:

- Disk Operating System
- Turbo C++

CODE



```
// *****
```

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

```
// *****
```

```
#include<fstream.h>
```

```
#include<ctype.h>
```

```
#include<iomanip.h>
```

```
#include<conio.h>
```

```
#include<stdio.h>
```

```
#include<graphics.h>
```

```
#include<time.h>
```

```
#include<dos.h>
```

```
//*****
```

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

```
//*****
```

```
class account
```

```
{
```

```
    int acno;
```

```
    char name[50];
```

```
    long double deposit;
```

```
    char type;
```

```
    char address[45];
```

```
    long double phone;
```

```

public:
    void create_account();
    //function to get data from user
    void show_account();
    //function to show data on screen
    void modify();
    //function to get new data from user
    void dep(long double);
    //function to accept amount and add to balance amount
    void draw(long double);
    //function to accept amount and subtract from balance amount
    void report();    //function to show data in tabular format
    int retacno();    //function to return account number
    int retdeposit(); //function to return balance amount
    char rettype(); //function to return type of account
};    //class ends here

void account::create_account()
{
    cout<<"\nEnter The account No. :";
    cin>>acno;
    cout<<"\n\nEnter The Name of The Account Holder : ";
    gets(name);
    cout<<"\nEnter The Address(in
    Alphabets):"; cin>>address;
    cout<<"\n\nEnter the Phone Number:";

```

```
    cin>>phone;
    cout<<"\nEnter Type of The account (C/S) : ";
    cin>>type;
    type=toupper(type);
    cout<<"\nEnter The Initial Amount: ";
    cin>>deposit;
    cout<<"\n\nAccount Created..";
}
```

```
void account::show_account()
{
    cout<<"\nAccount No. : "<<acno;
    cout<<"\nAccount Holder Name : ";
    cout<<name;
    cout<<"\nAddress:"<<address;
    cout<<"\nPhoneNo:"<<phone;
    cout<<"\nType of Account : "<<type;
    cout<<"\nBalance amount : "<<deposit;}
}
```

```
void account::modify()
{
    char ch;
    cout<<"Do you want to Modify the Account(y/n): ";
```

```

        cin>>ch;
        if(ch=='y')
        {
            cout<<"\nThe Account No."<<acno;
            cout<<"\nEnter The Address(in
            Alphabets):"; cin>>address;
            cout<<"\nEnter the Phone number:
            "; cin>>phone;
            cout<<"\nEnter Type of The Account (C/S) : ";
            cin>>type;
            type=toupper(type);
        }
    }

    void account::dep(long double x)
    {
        deposit+=x;
    }

    void account::draw(long double x)
    {
        deposit-=x;
    }

    void account::report()

```



```

{
cout<<" "<<acno<<"   "<<name<<"       "<<address<<"
"<<phone<<"      "<<type<<"   "<<deposit<<endl;
}

```

```

int account::retacno()

```

```

{
    return acno;
}

```

```

int account::retdeposit()

```

```

{
    return deposit;
}

```

```

char account::rettype()

```

```

{
    return type;
}

```

```

//*****

```

```

//          FUNCTION DECLARATION

```

```

//*****

```

```

void write_account(); //function to write record in binary file

```

```

void display_sp(int); //function to display account details given by user

```

```

void modify_account(int); //function to modify record of file

```

```

void delete_account(int);    //function to delete record of file
void display_all();         //function to display all account details
void deposit_withdraw(int,int) ;
// function to deposit/withdraw amount for given account
void intro();              //introductory screen function

//*****

//      THE MAIN FUNCTION OF PROGRAM
//*****

int main()
{textcolor(7);
  textbackground(1);
  char ch;
  int num;
  clrscr();
  intro();
  do
  {
    clrscr();
    cout<<"\n\n\ MAIN MENU"; cout<<"\n\n\n\t01.
    NEW ACCOUNT"; cout<<"\n\n\t02. DEPOSIT
    AMOUNT"; cout<<"\n\n\t03. WITHDRAW
    AMOUNT"; cout<<"\n\n\t04. BALANCE
    ENQUIRY"; cout<<"\n\n\t05. ALL ACCOUNT
    HOLDER LIST";

```

```
cout<<"\n\n\t06. CLOSE AN ACCOUNT";
cout<<"\n\n\t07. MODIFY AN ACCOUNT";
cout<<"\n\n\t08. EXIT";
cout<<"\n\n\tSelect Your Option (1-8): ";
cin>>ch;
clrscr();
switch(ch)
{
case '1':
    write_account();
    break;
case '2':
    cout<<"\n\n\tEnter The Account No. : ";
    cin>>num;
    deposit_withdraw(num, 1);
    break;
case '3':
    cout<<"\n\n\tEnter The Account No. : ";
    cin>>num;
    deposit_withdraw(num, 2);
    break;
case '4':
    cout<<"\n\n\tEnter The Account No. : ";
    cin>>num;
    display_sp(num);
    break;
case '5':
```

```

        display_all();
        break;
    case '6':
        cout<<"\n\n\tEnter The Account No. : ";
        cin>>num;
        delete_account(num);
        break;
    case '7':
        cout<<"\n\n\tEnter The Account No. : ";
        cin>>num;
        modify_account(num);
        break;
    case '8':
        cout<<"\n\tThanks for using Bank Management
System";
        break;
    default :cout<<"\a";
    }
    getch();
}
while(ch!='8');
    return 0;
}

```

```

//*****

//          FUNCTION TO WRITE IN FILE

//*****

```

```

void write_account()

```

```

{
    account ac;
    ofstream outFile;
    outFile.open("nf6.dat",ios::binary||ios::app);
    ac.create_account();
    outFile.write((char *) &ac, sizeof(account));
    outFile.close();
}

```

```

//*****

//          FUNCTION TO READ SPECIFIC RECORD FROM FILE

//*****

```

```

void display_sp(int n)

```

```

{
    account ac;
    int flag=0;
    ifstream inFile;
    inFile.open("nf6.dat",ios::binary);
    if(!inFile)
    {

```

```

        cout<<"File could not be Opened !! Press any Key...";
        return;
    }
    cout<<"\nBALANCE DETAILS\n";
    while(inFile.read((char *) &ac, sizeof(account)))
    {
        if(ac.retacno()==n)
        {
            ac.show_account();
            flag=1;
        }
    }
    inFile.close();
    if(flag==0)
        cout<<"\n\nAccount Number does not Exist";
}

//*****

//      FUNCTION TO MODIFY RECORD OF FILE

//*****

void modify_account(int n)
{
    int found=0;
    account ac;
    fstream File;

```

```

File.open("nf6.dat",ios::binary||ios::in||ios::out);
    if(!File)
    {
        cout<<"File could not be Opened !! Press any Key...";
        return;
    }
while(File.read((char *) &ac, sizeof(account)) && found==0)
{
    if(ac.retacno()==n)
    {
        ac.show_account();
        cout<<"\n\nEnter The New Details of Account"<<endl;
        ac.modify();
        int pos=(-1)*sizeof(account);
        File.seekp(pos,ios::cur); File.write((char
        *) &ac, sizeof(account)); cout<<"\n\n\t
        Account Modified" ; found=1;
    }
}
File.close();
if(found==0)
    cout<<"\n\n Account does not Exist";
}

```

```
//*****  
  
//      FUNCTION TO DELETE RECORD OF FILE  
  
//*****
```

```
void delete_account(int n)  
{  
    account ac;  
    ifstream inFile;  
    ofstream outFile;  
    inFile.open("nf6.dat",ios::binary);  
    if(!inFile)  
    {  
        cout<<"File could not be Opened !! Press any Key...";  
        return;  
    }  
    outFile.open("Temp.dat",ios::binary);  
    inFile.seekg(0,ios::beg); while(inFile.read((char  
    *) &ac, sizeof(account))) {  
        if(ac.retacno()!=n)  
        {  
            outFile.write((char *) &ac, sizeof(account));  
        }  
    }  
    inFile.close();  
    outFile.close();  
}
```



```

        remove("nf6.dat");

        rename("Temp.dat","nf6.dat");

        cout<<"\n\n\tAccount Closed ..";

    }

//*****

//  FUNCTION TO DISPLAY ALL ACCOUNTS DEPOSIT LIST

//*****

void display_all()
{
    account ac;
    ifstream inFile;
    inFile.open("nf6.dat",ios::binary);
    if(!inFile)
    {
        cout<<"File could not be Opened !! Press any Key...";
        return;
    }
    cout<<"\n\n\t\t\tACCOUNT HOLDER LIST\n\n";
    cout<<"=====
=====
=====\\n";

    cout<<"A/c no. NAME\t\t\tADDRESS\t\t\tPHONENO
Type\tBalance\\n";

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

    while(inFile.read((char *) &ac, sizeof(account)))
    {

```

```

        ac.report();
    }
    inFile.close();
}

//*****
//    FUNCTION TO DEPOSIT AND WITHDRAW AMOUNTS
//*****

void deposit_withdraw(int n, int option)
{
    int amt;
    int found=0;
    account ac;
    fstream File;
    File.open("nf6.dat",
        ios::binary||ios::in||ios::out); if(!File)
    {
        cout<<"File could not be open !! Press any Key...";
        return;
    }
    while(File.read((char *) &ac, sizeof(account)) && found==0)
    {
        if(ac.retacno()==n)
        {
            ac.show_account();
            if(option==1)

```

```

        {
            clrscr();
            cout<<"\n\n\tTO DEPOSITE AMOUNT ";
            cout<<"\n\nEnter The Amount to be Deposited";
            cin>>amt;
            ac.dep(amt);
        }
    if(option==2)
    {
        cout<<"\n\n\tTO WITHDRAW AMOUNT ";
        cout<<"\n\nEnter The Amount to be Withdraw";
        cin>>amt;
        int bal=ac.retdeposit()-amt;
        if((bal<500 && ac.rettype()=='S') || (bal<1000 &&
ac.rettype()=='C'))
            cout<<"Insufficiency Balance";
        else
            ac.draw(amt);
    }

    int pos=(-1)* sizeof(ac);
    File.seekp(pos,ios::cur); File.write((char
    *) &ac, sizeof(account)); cout<<"\n\n\t
    Record Updated"; found=1;

}

}

File.close();

```


OUTPUT



**BANK
MANAGEMENT
SYSTEM**

INTRODUCTION

BANK MANAGEMENT PROJECT

SUPERNOVA BANK

Mon Nov 14 17:51:24 2016

PROJECT BY:

S.SANJAYPRASANMAN

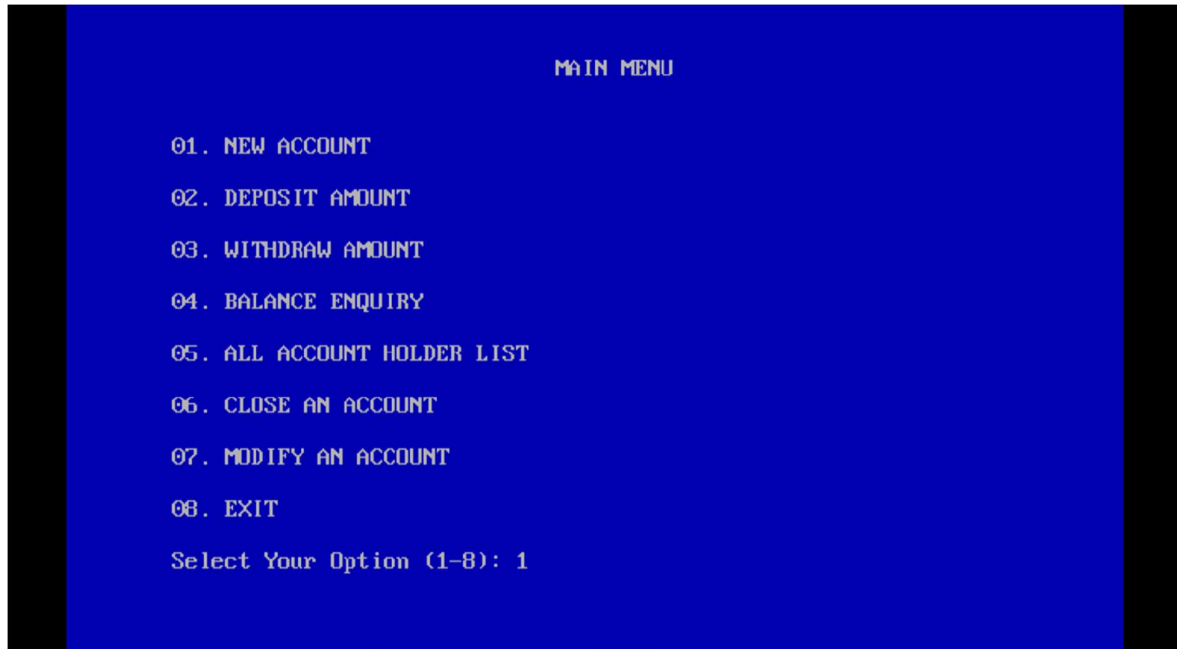
S.BALAKUMAR

R.MADHUKRISHNA

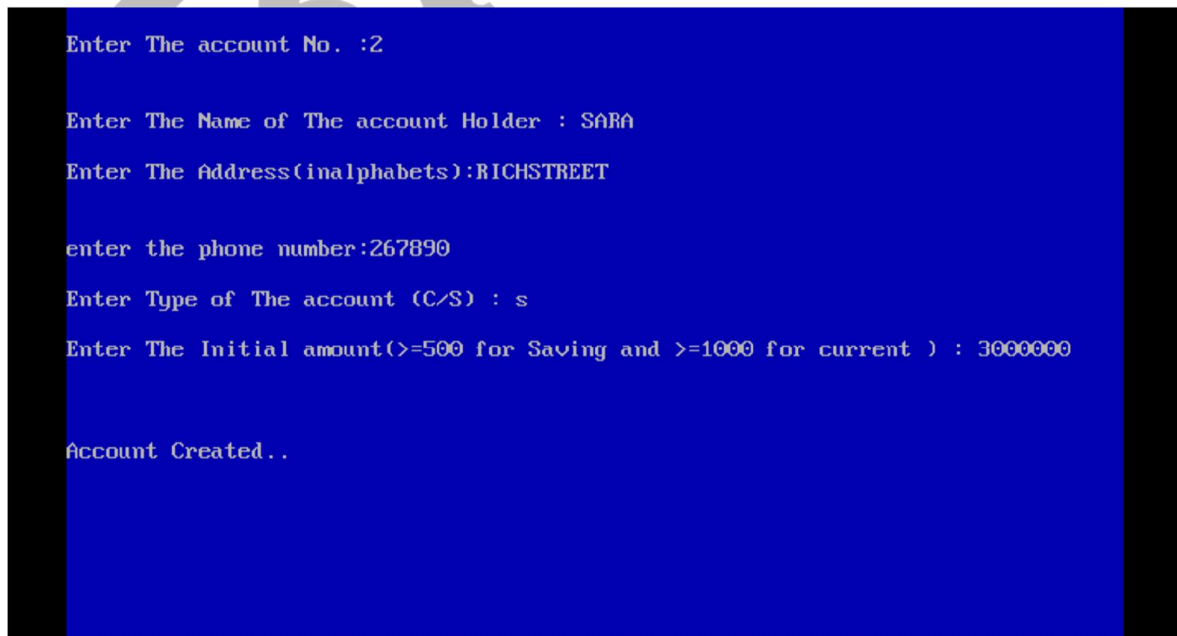
S.NITHISH

JAWAHAR HIGHER SECONDARY SCHOOL_

MAIN MENU



NEW ACCOUNT



DEPOSIT

```

                                MAIN MENU

01. NEW ACCOUNT
02. DEPOSIT AMOUNT
03. WITHDRAW AMOUNT
04. BALANCE ENQUIRY
05. ALL ACCOUNT HOLDER LIST
06. CLOSE AN ACCOUNT
07. MODIFY AN ACCOUNT
08. EXIT
Select Your Option (1-8): 2_

```

```

Enter The account No. : 1

Account No. : 1
Account Holder Name : BALA
Address:SIUASTREET
PhoneNo:254678
Type of Account : S
Balance amount : 200000

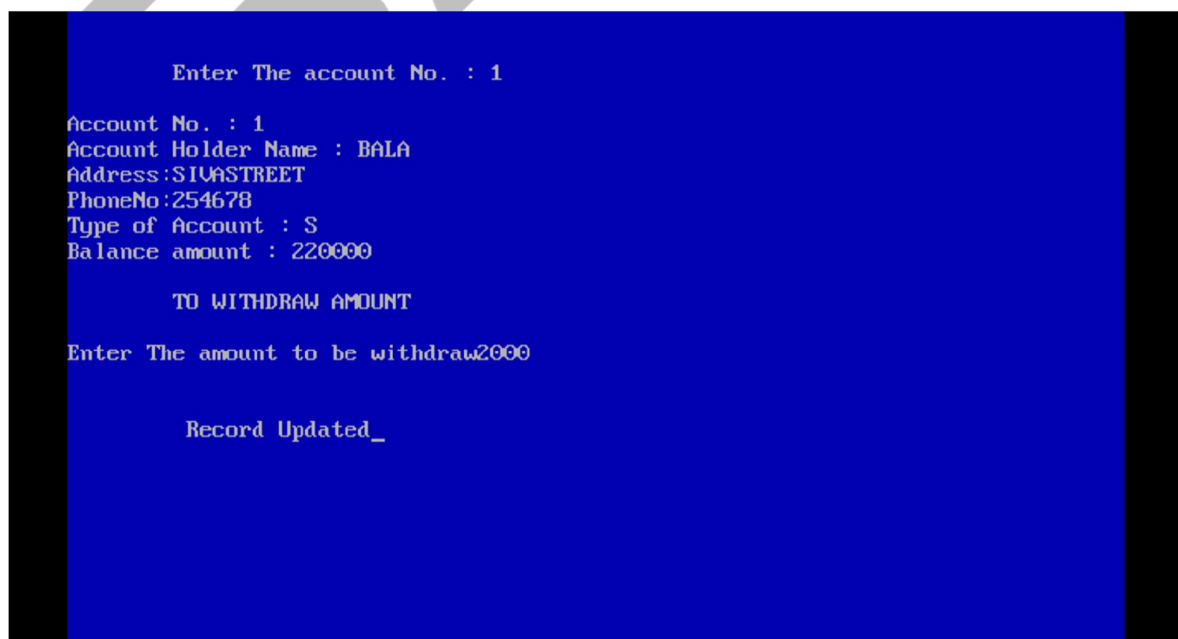
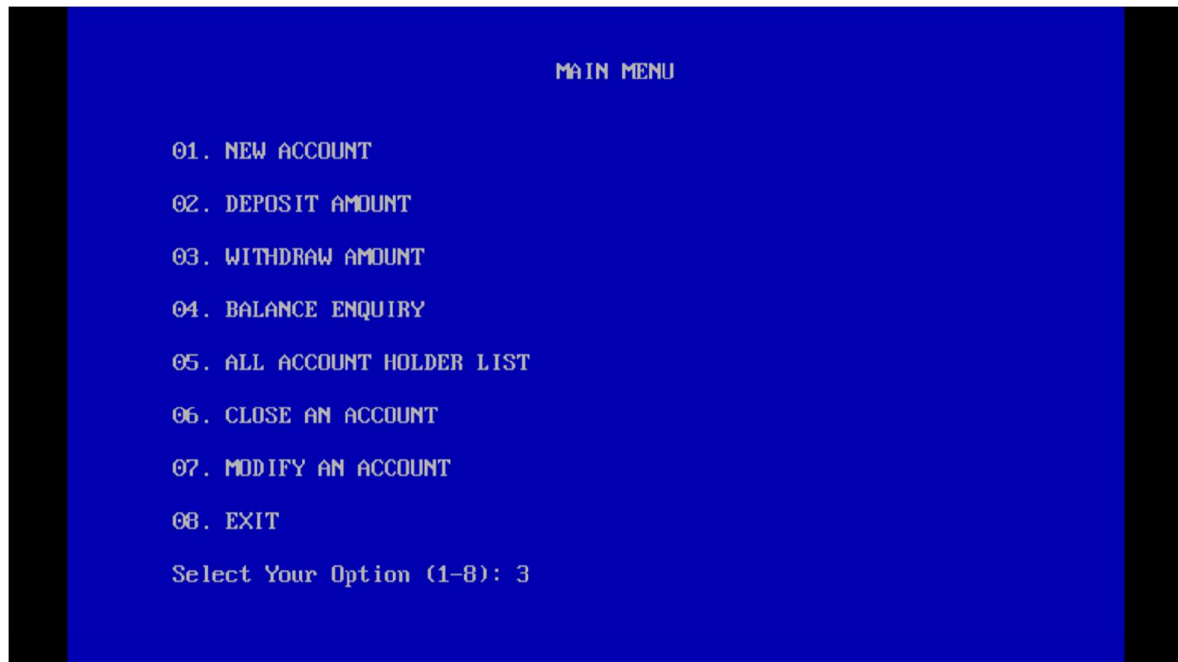
TO DEPOSITE AMOUNT

Enter The amount to be deposited20000

Record Updated_

```


WITHDRAW



BALANCE DETAIL

```

                                MAIN MENU

01. NEW ACCOUNT
02. DEPOSIT AMOUNT
03. WITHDRAW AMOUNT
04. BALANCE ENQUIRY
05. ALL ACCOUNT HOLDER LIST
06. CLOSE AN ACCOUNT
07. MODIFY AN ACCOUNT
08. EXIT

Select Your Option (1-8): 4

```

```

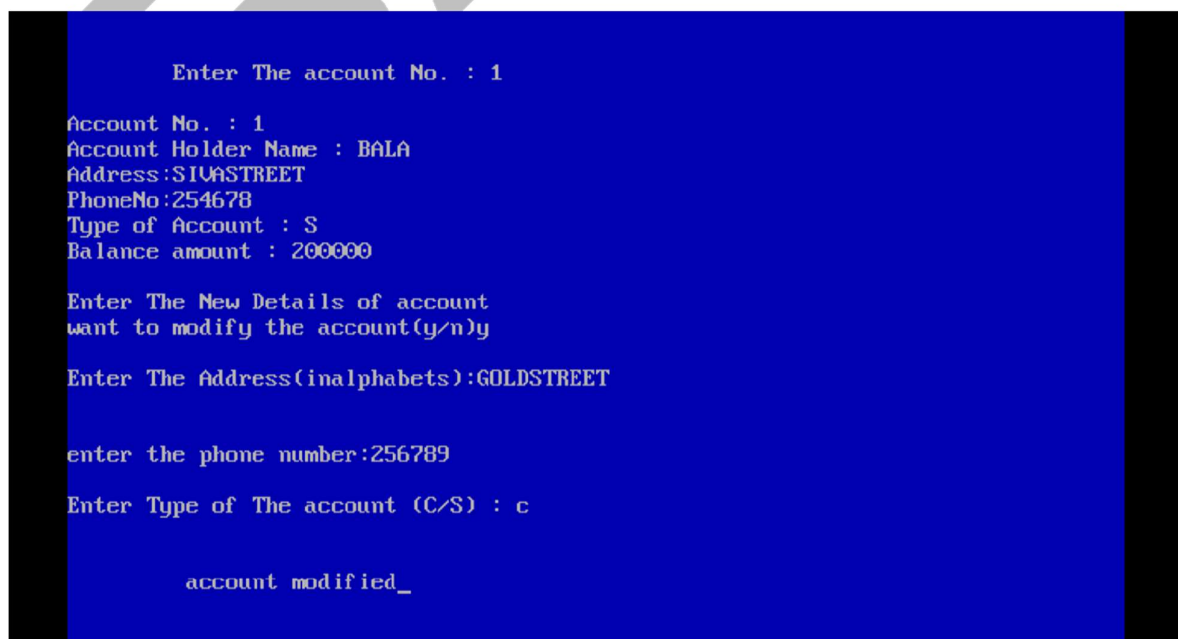
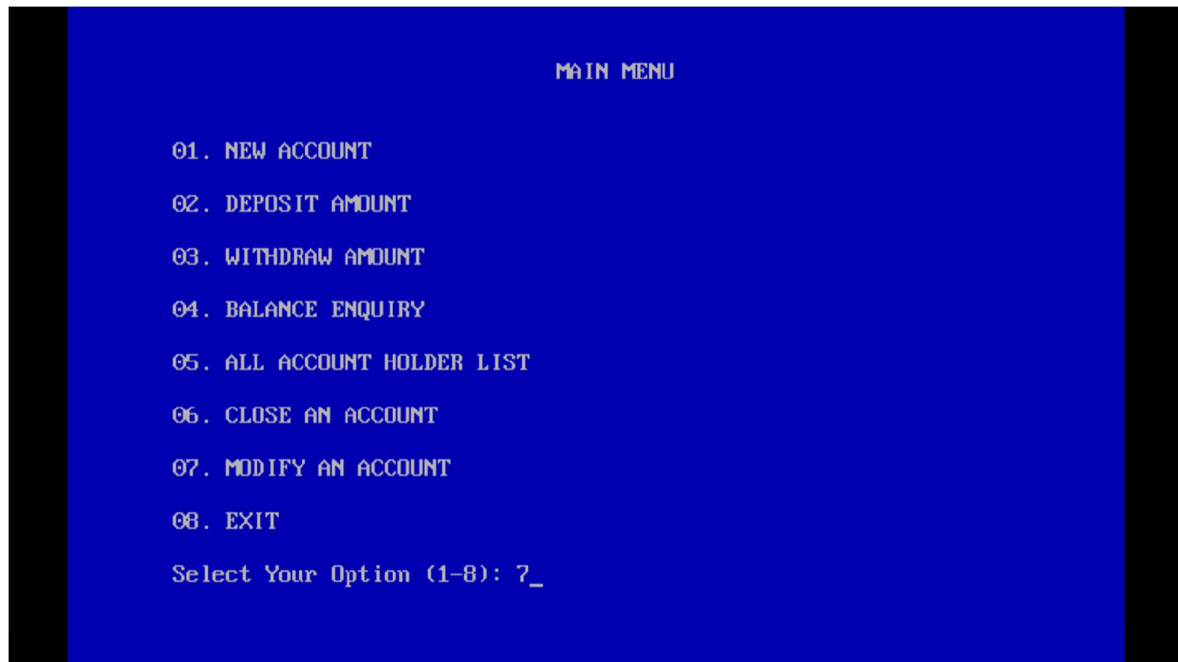
Enter The account No. : 1

BALANCE DETAILS

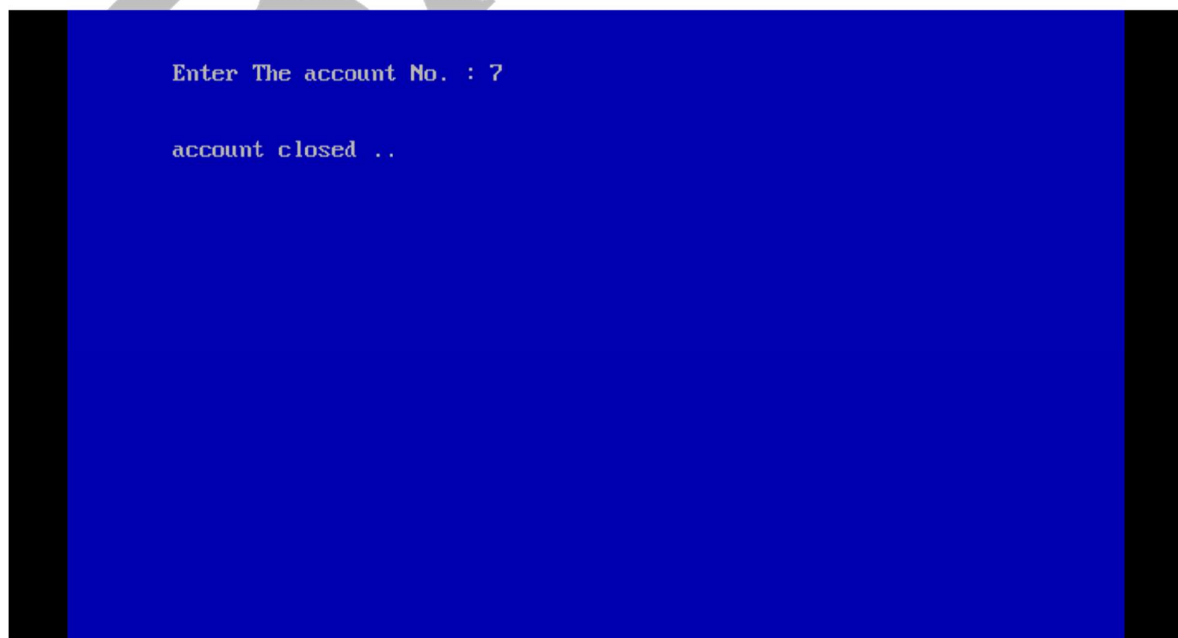
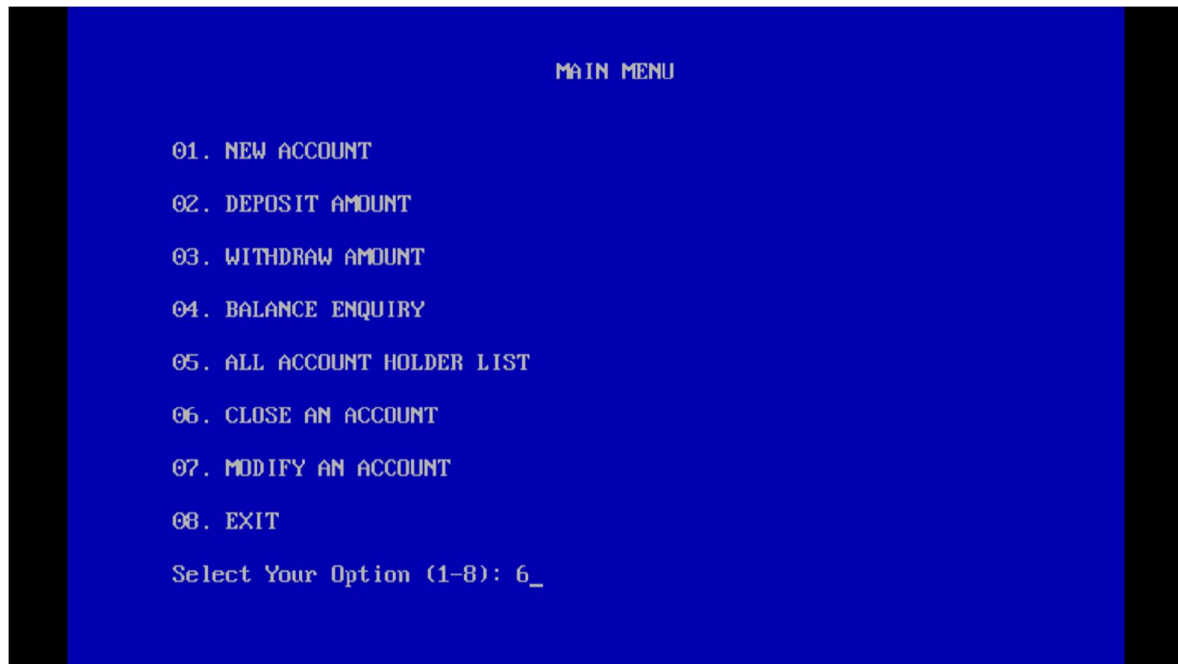
Account No. : 1
Account Holder Name : BALA
Address:SIVASTREET
PhoneNo:254678
Type of Account : S
Balance amount : 218000

```

MODIFY



CLOSE ACCOUNT



ACCOUNT HOLDERS LIST

MAIN MENU

- 01. NEW ACCOUNT
- 02. DEPOSIT AMOUNT
- 03. WITHDRAW AMOUNT
- 04. BALANCE ENQUIRY
- 05. ALL ACCOUNT HOLDER LIST
- 06. CLOSE AN ACCOUNT
- 07. MODIFY AN ACCOUNT
- 08. EXIT

Select Your Option (1-8): 5

ACCOUNT HOLDER LIST

A/c no.	NAME	ADDRESS	PHONENO	Type	Balance
1	BALA	GOLDSTREET	256789	C	200000
2	SARA	RICHSTREET	267890	S	300000
3	VIKI	BANKSTREET	290876	S	400567
4	AJAY	FOURSTREET	213789	C	100000
5	RAMU	WORDSTREET	251933	C	500000
6	BEAN	JOKESTREET	238967	S	600000

CONCLUSION

