

COMPUTER SCIENCE PROJECT

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AIM

This project helps us to understand the working and management of a bank. The bank gives the user a choice to access the bank as an user (customer) or a banker. If chosen to access the bank as a user, the bank allows the user to create an account. The project also helps the user to deposit or withdraw a certain amount of money from his/her own account. The user is also given the choice of taking a loan from the bank with a fixed rate of interest according to the money desired to borrow. If chosen to enter as a banker, the banker has access to all the existing accounts in the bank. The banker can delete an account as requested by the user and can another account. The banker can also search for an account based on the type of account and account number. One of the most important features offered by the banker is to create an account for the user in the bank.

SOFTWARE AND HARDWARE SPECIFICATIONS

SOFTWARE:

BASIC REQUIREMENTS: TURBO C++

HARDWARE:

Cd rom Speed : 52 x

Processor: Pentium 4

Hard disk capacity: 20gb

Memory: 512 mb ram

HEADER FILES

1. `#include<fstream.h>` - for file handling, `cin` and `cout`.

2. `#include<string.h>` - for string handling

3. `#include<ctype.h>` - for character handling

4. `#include<iomanip.h>` - for parametric manipulators

5. `#include<stdio.h>` - for standard Input and Output Operations.

6. `#include<math.h>` - for mathematical operations

7. `#include<conio.h>` - for `clrscr()` and `getch()` functions

BRIEF EXPLANATION

*1-To search based on type in the bank-
search_type()*

2-To display the details of your account-display()

3-To search based on account number-open_choice

*4-To append an account by adding new records-
append()*

5-To deposit amount in your account--deposit()

*6-To withdraw amount from your account-
withdraw()*

7-To take a loan from the bank-loan()

SOURCE CODE

```
#include<iostream.h>
#include<conio.h>
#include<fstream.h>
#include<string.h>
#include<ctype.h>
#include<iomanip.h>
#include<stdio.h>
#include<math.h>
```

```
class account
{
    int acno;
    char username[20];
    int deposit;
    char type[3];

public:
    void create_account();
    void show_account();
    void f_deposit(int);
    void draw(int);
    int return_acno();
    int return_deposit();
    char* return_type();
```

```
    char* return_username();  
};  
  
void account::create_account()  
{  
    cout<<"\n Enter the account number:";  
    cin>>acno;  
    cout<<"Enter the name of the account holder: ";  
    gets(username);  
    cout<<"Enter the type of the account (C/S/FD): ";  
    gets(type);  
    cout<<"Enter the initial amout of deposit: ";  
    cin>>deposit;  
    cout<<"YOUR ACCOUNT HAS BEEN CREATED."<<"\n";  
}  
  
void account::show_account()  
{  
    cout<<"\n Account Number: "<<acno;  
    cout<<"\n Name of the Account Holder: ";  
    cout<<username;  
    cout<<"\n Type of Account: "<<type;  
    cout<<"\n Balance Account: "<<deposit;  
}
```

```
void account::f_deposit(int y)
```

```
{
```

```
    deposit=deposit+y;
```

```
}
```

```
void account::draw(int y)
```

```
{
```

```
    deposit=deposit-y;
```

```
}
```

```
int account::return_acno()
```

```
{
```

```
    return acno;
```

```
}
```

```
int account::return_deposit()
```

```
{
```

```
    return deposit;
```

```
}
```

```
char* account::return_type()
```

```
{
```

```
    return type;
```

```
}
```

```
char* account::return_username()
```

```
{
```

```
    return username;
```

```
}
```

```
void Intro()
{
    cout<<"\n *****\n";
    cout<<"WELCOME TO BYTES NET-BANK:"<<endl;
}
```

```
//create a new file
void create()
{
    int i,n;
    account a;
    ofstream fout;
    cout<<"How many records you want?";
    cin>>n;
    fout.open("bank.dat",ios::out/ios::binary);

    for(i=0;i<n;i++)
    {
        a.create_account();
        fout.write((char*)&a,sizeof(a));
    }
    fout.close();
}
```

```
//read file
void display()
{
    account a;
    ifstream fin;
    fin.open("bank.dat",ios::in/ios::binary);
    fin.seekg(0);
    while(fin.read((char*)&a,sizeof(a)))
    {
        a.show_account();
    }
    fin.close();
}

void copy(char user[20])
{fstream f,t;
    account a;
    f.open("bank.dat",ios::in/ios::binary);
    t.open("user.dat",ios::out/ios::binary);
    f.seekg(0);
    while(f.read((char*)&a,sizeof(a)))
    {if (strcmpi(user,a.return_username())==0)
        {t.write((char*)&a,sizeof(a));}
    }
    f.close();
    t.close();}
```

```
}  
void user_display(char user[20])  
{copy(user);  
    account a;  
    ifstream fin;  
    fin.open("user.dat",ios::in/ios::binary);  
    fin.seekg(0);  
    while(fin.read((char*)&a,sizeof(a)))  
    {  
        a.show_account();  
    }  
    fin.close();  
}
```

```
//search based on account type  
void search_type()  
{  
    account a;  
    char choice_type[3],flag=0;  
    ifstream fin;  
    fin.open("bank.dat",ios::in/ios::binary);  
    cout<<"Enter account type of your choice: ";  
    cin>>choice_type;  
    while(fin.read((char*)&a,sizeof(a)))  
    {
```

```

    if(strcmpi(a.return_type(),choice_type)==0)
    {
        a.show_account();
        flag=1;
    }
}
fin.close();
if (flag==0)
{
    cout<<"Sorry! Account not found! Please check again!";
}
}
void user_search_type(char user[20])
{copy(user);
    account a;
    char choice_type[3],flag=0;
    ifstream fin;
    fin.open("user.dat",ios::in/ios::binary);
    cout<<"Enter account type of your choice: ";
    cin>>choice_type;
    while(fin.read((char*)&a,sizeof(a)))
    {
        if(strcmpi(a.return_type(),choice_type)==0)
        {
            a.show_account();

```

```
        flag=1;
    }
}
fin.close();
if (flag==0)
{
    cout<<"Sorry! Account not found! Please check again!";
}
}
```

```
//search based on account number
void open_choice()
{
    account a;
    int choice_acno, flag=0;
    ifstream fin;
    fin.open("bank.dat", ios::in/ios::binary);
    cout<<"Enter account number of your choice: ";
    cin>>choice_acno;
    while(fin.read((char*)&a, sizeof(a)))
    {
        if(a.return_acno()==choice_acno)
        {
            a.show_account();
            flag=1;
        }
    }
}
```

```
    }  
}  
fin.close();  
if (flag==0)  
{  
    cout<<"Sorry! Account not found! Please check again!";  
}  
}
```

```
void user_open_choice(char user[20])  
{copy(user);  
    account a;  
    int choice_acno, flag=0;  
    ifstream fin;  
    fin.open("user.dat", ios::in/ios::binary);  
    cout<<"Enter account number of your choice: ";  
    cin>>choice_acno;  
    while(fin.read((char*)&a, sizeof(a)))  
    {  
        if(a.return_acno()==choice_acno)  
        {  
            a.show_account();  
            flag=1;  
        }  
    }  
}
```

```
fin.close();
if (flag==0)
{
    cout<<"Sorry! Account not found! Please check again!";
}
}

//to append by adding new records
void append()
{
    int i,n;
    account a;
    ofstream fout;
    cout<<"How many accounts you want to add?";
    cin>>n;
    fout.open("bank.dat",ios::ate|ios::binary);

    for(i=0;i<n;i++)
    {
        a.create_account();
        fout.write((char*)&a,sizeof(a));
    }
    fout.close();
}
```

```

void deposit(char user[20])
{copy(user);
  account a ;
  int accnum;
  int depamount;
  int flag=0;
  fstream f,t;
  f.open("bank.dat",ios::out/ios::in/ios::binary);
  t.open("user.dat",ios::in/ios::binary);
  f.seekg(0);
  cout<<"Enter account number: ";
  cin>>accnum;
  while(t.read((char*)&a,sizeof(a)))
  {
    if(accnum==a.return_acno())
    {flag=1;
      f.seekg(0);
      while (f.read((char*)&a,sizeof(a)))
      {if(accnum==a.return_acno())
      {
        cout<<"Enter the amount to be deposited: ";
        cin>>depamount;
        a.f_deposit(depamount);
        f.seekp(f.tellg()-sizeof(a));
        f.write((char*)&a,sizeof(a));
      }
    }
  }
}

```

```
        a.show_account();
    }
}
}
}
    if (flag==0)
    {
cout<<"ERROR! ACCOUNT NOT FOUND. ";}
f.close();
}
```

```
void withdraw(char user[20])
{
    copy(user);
    account a;
    int accnum;
    int wamount;
    int flag=0;
    fstream f,t;
    f.open("bank.dat",ios::out/ios::in/ios::binary);
    t.open("user.dat",ios::in/ios::binary);
    t.seekg(0);
    cout<<"Enter the Account Number: ";
    cin>>accnum;
    while(t.read((char*)&a,sizeof(a)))
```

```

{
    if(accnum==a.return_acno())
    {flag=1;
      f.seekg(0);
      while (f.read((char*)&a,sizeof(a)))
      {
          if(accnum==a.return_acno())
          {
              cout<<"Enter the amount to be withdrawn: ";
              cin>>wamount;
              if(strcmpi(a.return_type(),"s")==0)
              {
                  cout<<"Sorry! Cannot withdraw from savings amount.";
              }
              else if((a.return_deposit()-wamount)<10)
              {cout<<"Sorry! Enough money not available in your account.";}
          }
      }
    }
    else
    {
        a.draw(wamount);
        f.seekp(f.tellg()-sizeof(a));
        f.write((char*)&a,sizeof(a));
        flag=1;
        a.show_account();
    }
}
}

```

```

    }
    }
    }
    if (flag==0)
        cout<<"Error! Account not found!";
    f.close();
}

float calculate(int P,int T)
{
    float tot=P*pow(1.15,T-1);
    return tot;
}

void loan(char user[20])
{copy(user);
    account a;
    char choice;
    int accnum,lamount,years;
    fstream f,t;
    f.open("bank.dat",ios::out/ios::in/ios::binary);
    t.open("user.dat",ios::in/ios::binary);
    t.seekg(0);
    cout<<"Enter your Account Number: ";
    cin>>accnum;

```

```

while(t.read((char*)&a,sizeof(a)))
{ if(accnum==a.return_acno())

{ f.seekg(0);
  while (f.read((char*)&a,sizeof(a)))
  { if(accnum==a.return_acno())
    {f.seekp(f.tellg()-sizeof(a));
    cout<<"Enter the amount you want a loan: ";
    cin>>lamount;

    cout<<"\n Enter tentative number of years after which you will be
able to pay back the loan: ";
    cin>>years;
    cout<<"\n The interest rate is 15% compounded annually.";
    cout<<"\n Amount to be paid after the said time:
"<<calculate(lamount,years);
    cout<<"\n Do you agree to this?(Y\N)";
    cin>>choice;

    if(choice=='Y' || choice=='y')
    {
a.f_deposit(lamount);
f.write((char*)&a,sizeof(a));
cout<<"The money has been deposited to your account.";
    }
    else
    {

```

```
        cout<<"Error! Account not found!";
    }
}
}
}
}
f.close();
}
```

```
void Delete()
{
    ifstream f1("bank.dat",ios::binary);
    ofstream f2("temp.dat",ios::binary);
    account acc;
    int accnos, flag=0;
    f1.seekg(0);
    cout<<"Enter the account number of the account to be deleted:";
    cin>>accnos;
    while( f1.read((char*)&acc,sizeof(acc)))
    {

        if(acc.return_acno()!=accnos)
            f2.write((char*)&acc,sizeof(acc));
        else
            flag=1;
    }
}
```

```

}
if(flag==0)
    cout<<"Account does not exist";
else
    cout<<"Account with Account number "<<accnos<<" has been deleted";
f1.close();
f2.close();
remove("bank.dat");
rename("temp.dat","bank.dat");
}

```

```

void main()
{
    clrscr();
    Intro();
    create();
    int ch;
    int login;
    char choice;
    char user[20];

    Intro();
    do
    {cout<<"\n *****\n";
    cout<<"LOGIN: \n"<<" PRESS: \n"<<"1.user\n"<<" 2.banker\n";

```

```

cout<<"\n Enter your choice:";
cin>> login;
if(login==1)
{ cout<<"\n *****\n";
  cout<<"ENTER USERNAME:";
  gets(user);
  copy(user);
  do
  { cout<<"\n*****\n";
    cout<<"\n MENU: ";
    cout<<"Enter 1-To search based on account type in the bank."<<"\n";
    cout<<"Enter 2-To display the details of your accounts in the
bank."<<"\n";
    cout<<"Enter 3-To search your specific account based on account
number."<<"\n";
    cout<<"Enter 4-To create a new account."<<"\n";
    cout<<"Enter 5-To deposit amount in your account."<<"\n";
    cout<<"Enter 6-To withdraw amount from your account."<<"\n";
    cout<<"Enter 7-To take a loan from the bank."<<"\n";
    cout<<"Enter Choice: ";
    cin>>ch;
    switch(ch)
    {
      case 1:user_search_type(user);
        break;

```

```

    case 2:user_display(user);
        break;
    case 3:user_open_choice(user);
        break;
    case 4:append();
        break;
    case 5:deposit(user);
        break;
    case 6:withdraw(user);
        break;
    case 7:loan(user);
        break;
    default: cout<<"Sorry! Please enter correct choice.";
}
cout<<"\n Do you want to continue?(Y/N)"<<"\n enter choice: \n";
cin>>choice;
}while(choice=='y'//choice=='Y');
}
else if(login==2)
{cout<<"\n *****\n";
    cout<<"ENTER PASSWORD:";
    int p;
    cin>>p;
    if(p==123)
    {

```

```

do
{
cout<<"\n*****n";
    cout<<"\n MENU: ";
    cout<<"Enter 1-To search based on type in account records of the
bank."<<"\n";
    cout<<"Enter 2-To display the details of a specific account."<<"\n";
    cout<<"Enter 3-To search based on account number."<<"\n";
    cout<<"Enter 4-To create a new account in the bank."<<"\n";
    cout<<"Enter 5-To delete a account based on account number in the
bank."<<"\n";

    cout<<"Enter Choice: ";
    cin>>ch;
    switch(ch)
    {
        case 1:search_type();
            break;
        case 2:display();
            break;
        case 3:open_choice();
            break;
        case 4:append();
            break;
        case 5:Delete();

```

```

        break;
    default: cout<<"Sorry! Please enter correct choice.";
}
cout<<"\n Do you want to continue?(Y/N)"<<"\n enter choice: \n";
cin>>choice;
}while(choice=='y' || choice=='Y');
}
else
{
cout<<"wrong password \n";}
}
cout<<"\n *****\n";
cout<<"\n Do you want to return to login menu?(Y/N)"<<"\n enter
choice: \n";
cin>>choice;
}while(choice=='y' || choice=='Y');
cout<<"*****THANK YOU!*****";
getch();
}

```

SAMPLE OUTPUT

1. To Create an account

```
*****
WELCOME TO BYTES NET-BANK:
How many records you want?3

Enter the account number:102
Enter the name of the account holder: anusha
Enter the type of the account (C/S/FD): c
Enter the initial amount of deposit: 5000
YOUR ACCOUNT HAS BEEN CREATED.

Enter the account number:109
Enter the name of the account holder: akshaya
Enter the type of the account (C/S/FD): fd
Enter the initial amount of deposit: 3000
YOUR ACCOUNT HAS BEEN CREATED.

Enter the account number:
```

2. To Login as user

```
Enter the account number:109
Enter the name of the account holder: akshaya
Enter the type of the account (C/S/FD): fd
Enter the initial amount of deposit: 3000
YOUR ACCOUNT HAS BEEN CREATED.

Enter the account number:208
Enter the name of the account holder: meena
Enter the type of the account (C/S/FD): s
Enter the initial amount of deposit: 3050
YOUR ACCOUNT HAS BEEN CREATED.

*****
WELCOME TO BYTES NET-BANK:

*****
LOGIN:
PRESS:
1.user
2.banker

Enter your choice:1

*****
ENTER USERNAME:anusha_
```

3. To create/add new account

```
MENU: Enter 1-To search based on account type in the bank.  
Enter 2-To display the details of your accounts in the bank.  
Enter 3-To search your specific account based on account number.  
Enter 4-To create a new account.  
Enter 5-To deposit amount in your account.  
Enter 6-To withdraw amount from your account.  
Enter 7-To take a loan from the bank.  
Enter Choice: 4  
How many accounts you want to add?2
```

```
Enter the account number:101  
Enter the name of the account holder: anusha  
Enter the type of the account (C/S/FD): c  
Enter the initial amount of deposit: 4000  
YOUR ACCOUNT HAS BEEN CREATED.
```

```
Enter the account number:104  
Enter the name of the account holder: anusha  
Enter the type of the account (C/S/FD): s  
Enter the initial amount of deposit: 3000  
YOUR ACCOUNT HAS BEEN CREATED.
```

```
Do you want to continue?(Y/N)  
enter choice:  
-
```

4. To display details of all the accounts of one user

```
MENU: Enter 1-To search based on account type in the bank.  
Enter 2-To display the details of your accounts in the bank.  
Enter 3-To search your specific account based on account number.  
Enter 4-To create a new account.  
Enter 5-To deposit amount in your account.  
Enter 6-To withdraw amount from your account.  
Enter 7-To take a loan from the bank.  
Enter Choice: 2
```

```
Account Number: 102  
Name of the Account Holder: anusha  
Type of Account: c  
Balance Account: 5000  
Account Number: 101  
Name of the Account Holder: anusha  
Type of Account: c  
Balance Account: 4000  
Account Number: 104  
Name of the Account Holder: anusha  
Type of Account: s  
Balance Account: 3000  
Do you want to continue?(Y/N)  
enter choice:
```

5. To search for an account based on account type

```
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
y

*****

MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 1
Enter account type of your choice: s

Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
_
```

6. To search specific account based on account number

```
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
y

*****

MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 3
Enter account number of your choice: 102

Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 5000
Do you want to continue?(Y/N)
enter choice:
```

7. To deposit into an account

```
Balance Account: 5000
Do you want to continue?(Y/N)
enter choice:
y

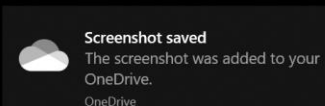
*****

MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 5
Enter account number: 102
Enter the amount to be deposited: 4000

Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 9000
Do you want to continue?(Y/N)
enter choice:
```

```
MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 2
```

```
Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 9000
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```



8. To withdraw money from an account

```
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 6
Enter the Account Number: 102
Enter the amount to be withdrawn: 4000
```

```
Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 5000
Do you want to continue?(Y/N)
enter choice:
```

y

```
MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice:
```

```
MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 2
```

```
Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 5000
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```



Screenshot saved
The screenshot was added to your
OneDrive.
OneDrive

9. To take a loan from a bank

```
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```

y

```
*****
```

```
MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 7
Enter your Account Number: 102
Enter the amount you want a loan: 3000
```

```
Enter tentative number of years after which you will be able to pay back the lo
an: _
```

y

```
*****
```

```
MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 7
Enter your Account Number: 102
Enter the amount you want a loan: 3000
```

```
Enter tentative number of years after which you will be able to pay back the lo
an: 3
```

```
The interest rate is 15% compounded annually.
Amount to be paid after the said time: 3967.5
Do you agree to this?(YN)y
The money has been deposited to your account.
Do you want to continue?(Y/N)
enter choice:
```

y_

```
MENU: Enter 1-To search based on account type in the bank.
Enter 2-To display the details of your accounts in the bank.
Enter 3-To search your specific account based on account number.
Enter 4-To create a new account.
Enter 5-To deposit amount in your account.
Enter 6-To withdraw amount from your account.
Enter 7-To take a loan from the bank.
Enter Choice: 2
```

```
Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 8000
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```

10. To login as banker

```
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
n

*****

Do you want to return to login menu?(Y/N)
enter choice:
y

*****

LOGIN:
PRESS:
1.user
2.banker

Enter your choice:2
```

```

*****

Do you want to return to login menu?(Y/N)
enter choice:
y

*****

LOGIN:
PRESS:
1.user
2.banker

Enter your choice:2

*****
ENTER PASSWORD:123

*****

MENU: Enter 1-To search based on type in account records of the bank.
Enter 2-To display the details of all accounts in the bank.
Enter 3-To search based on specific account number and display details.
Enter 4-To create a new account in the bank.
Enter 5-To delete a account based on account number in the bank.
Enter Choice: _

```

```

n

*****

Do you want to return to login menu?(Y/N)
enter choice:
y

*****

LOGIN:
PRESS:
1.user
2.banker

Enter your choice:2

*****
ENTER PASSWORD:145
wrong password

*****

Do you want to return to login menu?(Y/N)
enter choice:

```

11. To display details of all accounts in the bank

```
Enter Choice: 2

Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 8000
Account Number: 109
Name of the Account Holder: akshaya
Type of Account: fd
Balance Account: 3000
Account Number: 208
Name of the Account Holder: meena
Type of Account: s
Balance Account: 3050
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```

12. To search based on type in account records of the bank

```
Do you want to continue?(Y/N)
enter choice:
y

*****

MENU: Enter 1-To search based on type in account records of the bank.
Enter 2-To display the details of all accounts in the bank.
Enter 3-To search based on specific account number and display details.
Enter 4-To create a new account in the bank.
Enter 5-To delete a account based on account number in the bank.
Enter Choice: 1
Enter account type of your choice: s

Account Number: 208
Name of the Account Holder: meena
Type of Account: s
Balance Account: 3050
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```

13. To search based on specific account number and display details

```
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
y

*****

MENU: Enter 1-To search based on type in account records of the bank.
Enter 2-To display the details of all accounts in the bank.
Enter 3-To search based on specific account number and display details.
Enter 4-To create a new account in the bank.
Enter 5-To delete a account based on account number in the bank.
Enter Choice: 3
Enter account number of your choice: 208

Account Number: 208
Name of the Account Holder: meena
Type of Account: s
Balance Account: 3050
Do you want to continue?(Y/N)
enter choice:
_
```

14. To create new account in the bank

```
Type of Account: s
Balance Account: 3050
Do you want to continue?(Y/N)
enter choice:
y

*****

MENU: Enter 1-To search based on type in account records of the bank.
Enter 2-To display the details of all accounts in the bank.
Enter 3-To search based on specific account number and display details.
Enter 4-To create a new account in the bank.
Enter 5-To delete a account based on account number in the bank.
Enter Choice: 4
How many accounts you want to add?1

Enter the account number:110
Enter the name of the account holder: akshaya
Enter the type of the account (C/S/FD): s
Enter the initial amount of deposit: 4000
YOUR ACCOUNT HAS BEEN CREATED.

Do you want to continue?(Y/N)
enter choice:
```


15. To delete an account based on account number

```
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Account Number: 110
Name of the Account Holder: akshaya
Type of Account: s
Balance Account: 4000
Do you want to continue?(Y/N)
enter choice:
```

y

```
MENU: Enter 1-To search based on type in account records of the bank.
Enter 2-To display the details of all accounts in the bank.
Enter 3-To search based on specific account number and display details.
Enter 4-To create a new account in the bank.
Enter 5-To delete a account based on account number in the bank.
Enter Choice: 5
Enter the account number of the account to be deleted:109
Account with Account number 109 has been deleted
Do you want to continue?(Y/N)
enter choice:
```

16. To display details of all accounts in the bank

```
Enter Choice: 2

Account Number: 102
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 8000
Account Number: 109
Name of the Account Holder: akshaya
Type of Account: fd
Balance Account: 3000
Account Number: 208
Name of the Account Holder: meena
Type of Account: s
Balance Account: 3050
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Do you want to continue?(Y/N)
enter choice:
```

```
Name of the Account Holder: meena
Type of Account: s
Balance Account: 3050
Account Number: 101
Name of the Account Holder: anusha
Type of Account: c
Balance Account: 4000
Account Number: 104
Name of the Account Holder: anusha
Type of Account: s
Balance Account: 3000
Account Number: 110
Name of the Account Holder: akshaya
Type of Account: s
Balance Account: 4000
Do you want to continue?(Y/N)
enter choice:
```

```
n
```

```
*****
```

```
Do you want to return to login menu?(Y/N)
enter choice:
```

```
n
```

```
*****THANK YOU!*****
```

CONCLUSION

Our project helps the user to understand the management of a bank by using the concepts of data file handling developed in C++. This program helps the user to create an account in a bank without any difficulty and henceforth our program is executed successfully.

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ARORA