PREFACE

This project, in your hand, has been specifically written to introduce the working of banking system and following option have been programmed

- New account
- List of all account holder
- Individual account status
- Daily transection (Deposit/withdraw)
- Edit account(Modify/Delete)

This project just gives a glimpse of bank management system

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Submitted to: Prashant sir

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For the accomplishment of this project successfully many people have owned upon me their heart pledged support

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Certificate

This is certified that DEEPAK KUMAR PANDEY, SAWAN KUMAR PAL, NISHANT SRIVASTAVA, CHANDRAPRAKASH CHAUBEY. Has been successfully completed the project on **bank management system** during the academic year 2015-16In partial fulfillment of computer practical examination conducted by C·B·S·E , New Delhi·

Signature of Examiner   Signature of Teacher

// Header files //

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

//Class used in project //

```
class account
{
        intacno;
        char name[50];
        int deposit;
        char type;
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(int);          //function to accept amount and add to balance amount
        void draw(int);         //function to accept amount and subtract from balance amount
        void report();          //function to show data in tabular format
        intretacno();           //function to return account number
        intretdeposit(); //function to return balance amount
        char rettype();         //function to return type of account
};
void account::create_account()
{
        cout<<"\nEnter the account number \n\n  :";
        cin>>acno;
        cout<<"\n\nEnter the full name of account holder : ";
        gets(name);
        cout<<"\nEnter the type of account : ";
        cout<<"\nC for CURRENT ACCOUNT \n";
cout<<"\nS for SAVING ACCOUNT \n";
cin>>type;
        type=toupper(type);
        cout<<"\nEnter the initial deposit : ";
        cin>>deposit;
        cout<<"\n\n\nAccount credited";
}
void account::show_account()
{
        cout<<"\nAccount number \n : "<<acno;
        cout<<"\nAccount holder name : ";
        cout<<name;
```

```cpp
        cout<<"\nType of account : "<<type;
        cout<<"\nBalance : "<<deposit;
}
void account::modify()
{
        cout<<"\nThe account number :\n\n"<<acno;
        cout<<"\n\nEnter the name of account holder : ";
        gets(name);
        cout<<"\nEnter the type of account : ";
        cout<<"\nC for CURRENT ACCOUNT \n\n";
        cout<<"\nS for SAVING ACCOUNT \n\n";
        cin>>type;
        type=toupper(type);
        cout<<"\nEnter the amount : ";
        cin>>deposit;
}
void account::dep(int x)
{
        deposit+=x;
}

void account::draw(int x)
{
        deposit-=x;
}
void account::report()
{
        cout<<acno<<setw(10)<<" "<<name<<setw(10)<<" "<<type<<setw(6)<<deposit<<endl;
}
int account::retacno()
{
        return acno;
}
int account::retdeposit()
{
        return deposit;
}
char account::rettype()
{
        return type;
}
```

// Function declaraction //

```cpp
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
```

```cpp
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 desposit/withdraw amount for given account
void intro();       //introductory screen function
void help();  //function to display help about project
```

//Main function of program //

```cpp
int main()
{
        char ch;
        int num,ch1,ch2;
        clrscr();
        intro();
        do
        {
                clrscr();
                cout<<"\n\n\n\tWelcome to our";
                cout<<"\n\n\tBanking project\n";
                cout<<"\n\n\t01. New account";
                cout<<"\n\n\t02. List of accounts";
                cout<<"\n\n\t03. Individual account";
                cout<<"\n\n\t04. Daily transection  (Deposit/Withdrawal)";
                cout<<"\n\n\t05. Edit Acounts  (Modify/close)";
                cout<<"\n\n\t06. Help";
                cout<<"\n\n\t07. Exit";
                cout<<"\n\n\tChoose any option from 1 to 7 ";
                cin>>ch;
                clrscr();
                switch(ch)
                {
                case '1':
                        write_account();
                        break;
                case '2':
                        display_all();
                        break;
                case '3':
                        cout<<"\nEnter your account number : "; cin>>num;
                        display_sp(num);
                        break;
                case '4':cout<<"\n 1.Deposit amount";
                        cout<<"\n 2.Withdrawal"<<"\nEnter your choice(1 or 2)\n";
                        cin>>ch1;
                         if(ch1==1)
                    {
                        cout<<"\n\nEnter your account number : "; cin>>num;
```

```cpp
                        deposit_withdraw(num, 1);
                }
                        else if(ch1==2)
                {cout<<"\n\n\tEnter your account number : "; cin>>num;
                        deposit_withdraw(num, 2);}
                        break;
            case '5':cout<<"\n 1.Modify your account";
                        cout<<"\n 2.Delete your account"<<"\n\n Enter you choise (1 or 2) \n\n";
cin>>ch2;
                if(ch2==1)
                                {cout<<"Enter your account number : ";cin>>num;
                                modify_account(num);}
                                 if(ch2==2)
                                {cout<<"Enter your account number : ";cin>>num;
                                delete_account(num);}
                                break;
                    case '6':
                            help();
                            break;
                    case '7':
                            cout<<"\n\n\tThanks for intrest in our project";
                            break;
                     default :cout<<"\a";
                    }
                    getch();
    }while(ch!='7');
            return 0;
}
```

<h1 style="text-align:center">// Function to write in file //</h1>

```cpp
void write_account()
{
        account ac;
        ofstreamoutFile;
        outFile.open("account.dat",ios::binary|ios::app);
        ac.create_account();
        outFile.write((char *) &ac, sizeof(account));
        outFile.close();
}
```

<h1>// Function to read desired record fron file //</h1>

```cpp
void display_sp(int n)
{
        account ac;
        int flag=0;
        ifstreaminFile;
```

```
inFile.open("account.dat",ios::binary);
        if(!inFile)
        {
                cout<<"File not available !! Press any Key...";
                return;
        }
        cout<<"\nBalance deposit\n";
   while(inFile.read((char *) &ac, sizeof(account)))
        {
                if(ac.retacno()==n)
                {
                        ac.show_account();
                        flag=1;
                }
        }
inFile.close();
        if(flag==0)
                cout<<"\n\nInvalid account number";
}
```

// Function to modifyrecords in file //

```
void modify_account(int n)
{
        int found=0;
        account ac;
        fstream File;
File.open("account.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();
                        cout<<"\n\n Enter new detail of account"<<endl;
                        ac.modify();
                        intpos=(-1)*sizeof(account);
                        File.seekp(pos,ios::cur);
                File.write((char *) &ac, sizeof(account));
                cout<<"\n\n\t Record updated ";
                  found=1;
                 }
        }
```

```
        File.close();
        if(found==0)
                cout<<"\n\n Record not found";
}
        // Function to delete record from file  //
void delete_account(int n)
{
        account ac;
        ifstreaminFile;
        ofstreamoutFile;
        inFile.open("account.dat",ios::binary);
        if(!inFile)
        {
                cout<<"File could not open !! 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("account.dat");
        rename("Temp.dat","account.dat");
        cout<<"\n\n\tRecord deleted ..";
}
    // Function to display all account holder's name //
void display_all()
{
        account ac;
        ifstreaminFile;
        inFile.open("account.dat",ios::binary);
        if(!inFile)
        {
                cout<<"File could not be open !! Press any Key...";
                return;
        }
        cout<<"\n\n\t\tAccount holder list\n\n";
        cout<<"_____\n";
```

```
            cout<<"_____\n";
            cout<<"A/c no.    Name      Type      Balance\n";
            cout<<"_____\n";
            cout<<"_____\n";
            while(inFile.read((char *) &ac, sizeof(account)))
            {
                    ac.report();
            }
            inFile.close();}
```

// Function for transection //

```
void deposit_withdraw(int n, int option)
{
        intamt;
        int found=0;
        account ac;
        fstream File;
File.open("account.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)
                        {
                                cout<<"\n\n\tTodeposite amount ";
                                cout<<"\n\nEnterthe amount to be deposit :";
                                cin>>amt;
                                ac.dep(amt);
                        }
                    if(option==2)
                        {
                                cout<<"\n\n\tTo withdraw amount ";
                                cout<<"\n\nEnter the amount to be withdrawn :";
                                cin>>amt;
                                intbal=ac.retdeposit()-amt;
                                if((bal<500 &&ac.rettype()=='S') || (bal<1000 &&ac.rettype()=='C'))
                                        cout<<"Insufficient balance!!!!!";
                                else
                                        ac.draw(amt);}
```

```
                    intpos=(-1)* sizeof(ac);
                    File.seekp(pos,ios::cur);
                    File.write((char *) &ac, sizeof(account));
                    cout<<"\n\n\t Record updated!!!!!";
                    found=1;
            }  }
File.close();
        if(found==0)
                cout<<"\n\n Record not available !!!!! ";}
```

// Function to display help about this project //

```
void help(void)
{
clrscr();


        cout<<"\n\n\n\t\t\t\t\b\t Welcome To Our";
        cout<<"\n\n\t\t\t\b\t\t Banking Project\n";
        cout<<"\nYou can keep record of your transection";
        cout<<"\nThis Program is capable of holding any number ofaccount and amount";
        cout<<"\n---->In first option you can open a new account";
        cout<<"\nNOTE:-Our privacy purpos user are allowed to choose their account number by own";
        cout<<"\nand are requested to keep it confidential";
        cout<<"\n---->In second option you can see list of all account holder";
        cout<<"\n---->In third option you can see information of your account";
        cout<<"\n---->In fourth option you can see daily transections i.e."<<"\n(Deposit/Withdraw)";
        cout<<"\n---->In fifth option their is provision of editing your account i.e"<<"\n
(Modify/Delete)";
        cout<<"\n  NOTE:-Open amount should not be less than Rs. 500/-";
        cout<<"\n---->And last option is Quit (Exit to windows)";
        cout<<"\nPress enter to continue...";
getch();
}
```

// Introduction function //

```
void intro()
{
        cout<<"\n\n\n\t\t\t\t\bWelcome  To  Our ";
        cout<<"\n\n\t\b\t\t\t\tBanking Project\n";
        cout<<"\n\n\n\nPrepared By:";
        cout<<"\n\n:1) Deepak kumar Pandey (XII A1)";
        cout<<"\n\n:2) Sawan kumar  Pal  (XII A1)";
        cout<<"\n\n:3) Nishant Srivastava (XII A1)";
        cout<<"\n\n:4) Chandraprakash Chaubey (XII A1)";
        cout<<"\n\nSchool : Cetral Hindu Boy's School (k)";
        getch();
}
```