BANKING MANAGEMENT SYSTEM `

Scope: This project is helpful to computerize the cash transaction, record keeping which is a very huge task and maintaining the bank account of may users.

PROJECT DESCRIPTION:
The **"Banking System"** is based on the cash transaction in a bank. The first activity is based on making a new account. This authority is given only to admin. Any modifications to be done in the present account data can be done only by admin. He also has the right to delete any account.

As the customer creates a new account he is prompted to enter his name, after this they are need to give their phone number.
Then they are prompted to choose the type of account they want to create, either Savings account or Current. Then they have to deposit some money into the account.After the amount has been deposited, the account is created and it is shown on the screen. Then you are once again prompted to the start menu. You can create new account. Deposit, withdraw, do a balance enquiry, look at all holders list, close an account, modify an account.

Modules:

- **New Account:** When a new user creates an account, his record is saved in the database.
- **Username:** After recording the account number the username is gained.
- **Type:** The user is prompted to enter the type of account, either current or saving.
- **Number:** The user is prompted to enter their phone number**.**
- **Password:** The user is prompted to enter their four digit password for their bank account.
- **Deposit:** The user has to deposit certain amount of money into their account.
- **Registration:** After the user deposits a money the account is created
- **New Task:** After the user has successfully created an account he is prompted to the main menu.
- **Deposit:** Additional amount of money is added to the current balance of the selected account number
- **Withdrawal:** Amount of money withdrawn is subtracted from the given account
- **Queries:** This provides the report of the given account number, its user name, type and balance amount.

Test cases

1.Create your account
2.check account detail
3.Cash withdrwal or deposit
4.Exit

Enter your choice=1
Enter the Username: Tony Elcucy
Enter phone number: 735822869
Enter your account type
1.Saving   2.Current
Enter the type of account: 1
Enter your four digit password: 1234
How many Rs. You want to deposit.
(minimum deposit Rs.1000): 2000
Your account number is 70707500

1.Create your account
2.check account detail
3.Cash withdrwal or deposit
4.Exit

Enter your choice= 3

1.Cash deposit
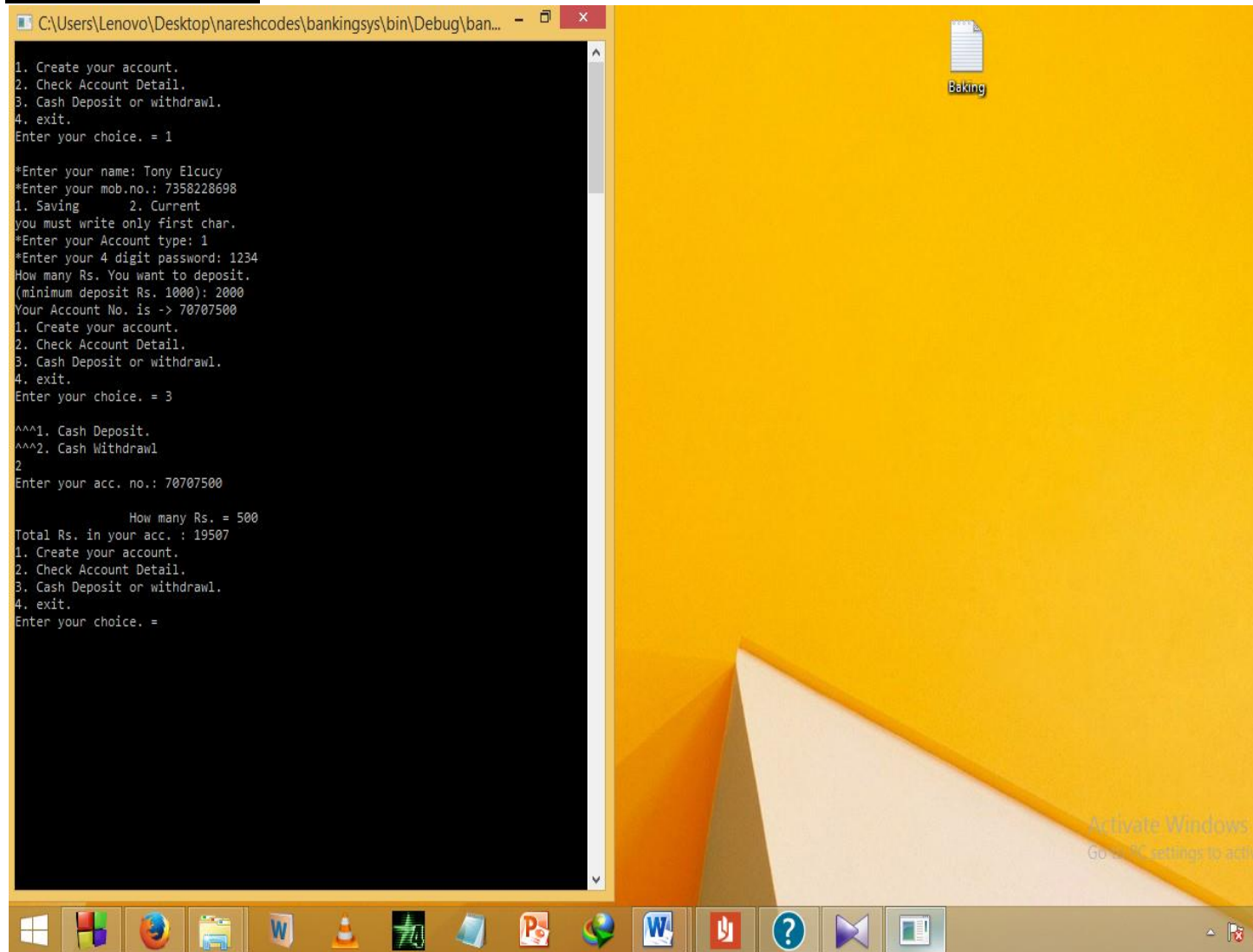2.Cash Withdrawal
2
Enter your account number:70707500

How many Rs= 500

Total Rs. In your account: 1500

1.Create your account
2.check account detail
3.Cash withdrwal or deposit
4.Exit

Enter your choice= 4

SNAPSHOT

```cpp
#include<iostream>

#include<stdio.h>

#include<string>

#include<stdlib.h>

#include<cstring>

#include<fstream>

using namespace std;

class createacc

{

    int pass;

    public:

        long long int no;

        string nm;

        char act;

        int tp,ctp;

        float rs;

        void name()

        {cout<<"\n*Enter your name: ";cin.ignore();getline(cin,nm);}

        void mob()

        {cout<<"*Enter your mob.no.: ";cin>>no;}

        void actype()

        {cout<<"1. Saving\t2. Current\nyou must write only first char.\n";cout<<"*Enter your Account type: ";cin>>act;}
```

```cpp
void pwd()

{cout<<"*Enter your 4 digit password: ";cin>>pass;while((pass>9999)||(pass<1000)){cout<<"Please
re-enter your password. = ";cin>>pass;}}

void rpi()

{cout<<"How many Rs. You want to diposit.\n(minimum diposit Rs. 1000):
";cin>>rs;while(rs<1000){cout<<"Min. amount deposit Rs. 1000.00 : ";cin>>rs;}}

void acid()

{static long long int id=70707500;tp=id;ctp=id;++id;}

void file()

{

    cout<<"Your Account No. is -> "<<ctp;

    char fname[13];

    snprintf(fname,sizeof(fname),"%d",ctp);

    strcat(fname,".txt");

    ofstream fout,fch;

    fout.open(fname,ios::out);

    fout<<"% Name          : "<<nm<<"\n";

    fout<<"% Mob.no.       : "<<no<<"\n";

    fout<<"% Account Type & NO.: "<<act;

    fout<<ctp<<"\n";

    fout<<"% Total Rs. is     :% "<<rs;

    fout.close();

    fch.open("checking.txt");

    fch<<tp;

    fch.close();

}
```

```cpp
};
class login:protected createacc
{
    int y;
    long long int cno;
    public:
        int checkno(long long int z)
        {
            cno=z;
            if(z<tp)
            {y=0;}
            else
            {y=1;}
            return y;
        }
        void shwdat(long long int z)
        {
            int x;
            x=checkno(z);
            if(x==1)
            {
                char fnm[13],c;
                snprintf(fnm,sizeof(fnm),"%d",ctp);
                ifstream getd;
                strcat(fnm,".txt");
```

```cpp
        getd.open(fnm,ios::in);

        c=getd.get();

        while(!getd.eof())

        {if((int)c==37){}else{cout<<c;}c=getd.get();}

        getd.close();

    }

    else

    {cout<<"Account does not exist.\n";}

    }

};

class cashtran:protected login

{

    long long int acn;

    public:

    void cashdep()

    {

        int k;

        cout<<"Enter your acc. no.: ";

        cin>>acn;

        cin.ignore();

        k=checkno(acn);

        char of[13],dof[500],c;

        snprintf(of,sizeof(of),"%d",acn);

        strcat(of,".txt");

        if(k==1)
```

```cpp
{
    cout<<"\n\t\tHow many Rs. = ";

    cin>>k;

    ifstream fin;

    fin.open(of,ios::in);

    int i=0,j=0,e;

    unsigned char r[20];

    c=fin.get();

    while(!fin.eof())

    {
        if((int)c==37)

        {j++;}

        if(j==5)

        {
            if(i>=11)

            {i=0;}

            if((int)c>=48 && (int)c<=57)

            {r[i]=c;i++;}

        }

        if(j!=5)

        {dof[i]=c;e=i;}

        i++;

        c=fin.get();

    }

    fin.close();
```

```cpp
        cin.ignore();

        float w=0,y;

        int u=1;

        for(i=20;i>=0;i--)

        {

            if((int)r[i]>=48 && (int)r[i]<=57)

            {y=(float)(r[i]-'0');y=y*u;w=w+y;u=u*10;}

        }

        w=w+k;

        j=0;

        i=0;

        ofstream fout;

        fout.open(of,ios::out);

        while(i!=(e+1))

        {fout<<dof[i];i++;}

        fout<<"% "<<w;

        fout.close();

        cout<<"Total Rs. in your acc. : "<<w;

    }

    else

    {cout<<"Account does not exist.\n";}

}

void cashwid()

{

    int k;
```

```cpp
cout<<"Enter your acc. no.: ";

cin>>acn;

cin.ignore();

k=checkno(acn);

char of[13],dof[500],c;

snprintf(of,sizeof(of),"%d",acn);

strcat(of,".txt");

if(k==1)

{

    cout<<"\n\t\tHow many Rs. = ";

    cin>>k;

    ifstream fin;

    fin.open(of,ios::in);

    int i=0,j=0,e;

    unsigned char r[20];

    c=fin.get();

    while(!fin.eof())

    {

        if((int)c==37)

        {j++;}

        if(j==5)

        {

            if(i>=11)

            {i=0;}

            if((int)c>=48 && (int)c<=57)
```

```cpp
           {r[i]=c;i++;}
        }
      if(j!=5)
      {dof[i]=c;e=i;}
      i++;
      c=fin.get();
   }
   fin.close();
   cin.ignore();
   float w=0,y;
   int u=1;
   for(i=20;i>=0;i--)
   {
      if((int)r[i]>=48 && (int)r[i]<=57)
      {y=(float)(r[i]-'0');y=y*u;w=w+y;u=u*10;}
   }
   if(w>k)
   {
      w=w-k;
      j=0;
      i=0;
      ofstream fout;
      fout.open(of,ios::out);
      while(i!=(e+1))
      {fout<<dof[i];i++;}
```

```cpp
            fout<<"% "<<w;

            fout.close();

            cout<<"Total Rs. in your acc. : "<<w;

        }

        else

        {cout<<"\nyou dont have enough money.\n";}

    }

    else

    {cout<<"Account does not exist.\n";}

    }
};

int main(void)

{

    while(1)

    {

        cout<<"\n1. Create your account.";

        cout<<"\n2. Check Account Detail.";

        cout<<"\n3. Cash Deposit or widrall.";

        cout<<"\n4. exit.\n";

        cout<<"Enter your choice. = ";

        char b;

        cin>>b;

        switch(b)

        {

            case '1':
```

```cpp
{
    static int i=0;

    createacc ci;

    ci.name();

    ci.mob();

    ci.actype();

    ci.pwd();

    ci.acid();

    ci.rpi();

    ci.file();

    i++;

    break;
}
case '2':

{
    cout<<"Check Acc. details\n";

    login l;

    int x;

    cout<<"Enter your Acc. No. = ";

    cin>>x;

    l.shwdat(x);

    break;
}
case '3':

{
```

```cpp
            cout<<"\n^^^1. Cash Deposit.\n^^^2. Cash Withdrawl\n";

            int x;

            cin>>x;

            cashtran c;

            if(x==1)

            {

                c.cashdep();

            }

            else if(x==2)

            {

                c.cashwid();

            }

            else

            {cout<<"\nYour Input is invalid.\n";}

            break;

        }

        case '4':{return 0;}

        default:

            cout<<"Your Input is invalid.";

    }

  }

}
```