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ABOUT THE TOPIC

This project has been made to demonstrate simple bank account management system via C++. It is a program which allows the user to enjoy the benefits of withdrawal, deposition and checking of balance, in an account having 1,000 rupees as initial amount. It also allows user to change the pin code of the account, which is initially 1234.

This program utilizes the concept of data file handling of C++, and also uses the user defined functions of C++, and classes and objects.

ABOUT THE PLATFORM

The following program has been made in programming language, C++. It is regarded as general purpose programming language. It has imperative, object oriented and generic programming features, while it also provides facilities for low-level memory manipulation.

C++ introduces object-oriented programming (OOP) features to C. It offers classes, which provide the four features commonly present in OOP languages, i.e., encapsulation, inheritance, polymorphism, abstraction.

SOURCE CODE

```
#include<iostream.h>
#include<conio.h>
#include<fstream.h>
#include<stdlib.h>
class account
{
int pin;
float balance;
public:
float amount;
float getbal();
int getpin();
float deposit();
float withdraw();
void pinchange();
}acc;
float account::getbal()
{
ifstream fin("balance.txt");
if(!fin)
{
cout<<"file unable to open.";
getch();
exit(0);
}
fin>>balance;
fin.close();
return balance;
```

```

}
int account::getpin()
{
ifstream fi("pincode.txt");
if(!fi)
{
cout<<"file unable to open";
getch();
exit(0);
}
fi>>pin;
fi.close();
return pin;
}
float account::deposit()
{
int newbal=acc.getbal()+acc.amount;
ofstream fout("balance.txt");
fout<<newbal;
fout.close();
return newbal;
}
float account::withdraw()
{
float newbal=acc.getbal()-acc.amount;
ofstream fout("balance.txt");
fout<<newbal;
fout.close();
return newbal;
}
void account::pinchange()
{
int ch,npin;
cout<<"enter recent pin\n";

```

```

cin>>ch;
if(ch==acc.getpin())
{
cout<<"enter new pin\n";
cin>>npin;
cout<<"re-enter your pin\n";
cin>>ch;
if(ch==npin)
{
cout<<"your pin is successfully changed\n
your new pin is,-\n"<<npin;
ofstream fo("pincode.txt");
fo.put(npin);
fo.close();
}
else
{
cout<<"pin doesn't match\n";
exit(0);
}
}
else
cout<<"invalid pin";
}
void main()
{
clrscr();
start:
clrscr();
int pinch,choice;
cout<<"\n\tWELCOME TO OUR ACCOUNT
MANAGEMENT SERVICE\n";
cout<<"\nplease enter your pin\n\n";
cin>>pinch;

```

```
if(pinch==acc.getpin())
{
cout<<"enter your choice\n\n";
cout<<"1. Withdraw\n";
cout<<"2. Deposit\n";
cout<<"3. check balance\n";
cout<<"4. Change pin\n";
cout<<"5. Exit\n\n";
cin>>choice;
switch(choice)
{
case 1:
cout<<"enter the amount to be
withdrawn\n";
cin>>acc.amount;
acc.withdraw();
cout<<"your current
balance="<<acc.getbal();
break;
case 2:
cout<<"enter the amount to be
deposited\n";
cin>>acc.amount;
acc.deposit();
cout<<"your current
balance="<<acc.getbal();
break;
case 3:
cout<<"your current
balance="<<acc.getbal();
break;
case 4:
acc.pinchange();
break;
```

```
case 5:
cout<<"THANK YOU TO USE OUR
SERVICE";
getch();
exit(0);
default:
cout<<"invalid choice";
}
cout<<"\n\ndo you want to continue\n";
cout<<"enter 1 to continue and 2 to exit\n";
cin>>choice;
switch(choice)
{
case 1:
goto start;
case 2:
cout<<"THANK YOU TO USE OUR
SERVICE\n";
getch();
exit(0);
default:
cout<<"invalid choice\n";
break;
}
}
else
cout<<"the pin you entered is incorrect\n";
getch();
}
```


SAMPLE OUTPUT

```
WELCOME TO OUR ACCOUNT MANAGEMENT SERVICE
```

```
please enter your pin
```

```
1234
```

```
enter your choice
```

1. Withdraw
2. Deposit
3. check balance
4. Change pin
5. Exit

```
1
```

```
enter the amount to be withdrawn
```

```
100
```

```
your current balance=900
```

```
do you want to continue
```

```
enter 1 to continue and 2 to exit
```

```
WELCOME TO OUR ACCOUNT MANAGEMENT SERVICE
```

```
please enter your pin
```

```
1234
```

```
enter your choice
```

1. Withdraw
2. Deposit
3. check balance
4. Change pin
5. Exit

```
2
```

```
enter the amount to be deposited
```

```
200
```

```
your current balance=1100
```

```
do you want to continue
```

```
enter 1 to continue and 2 to exit
```

```
-
```

CONCLUSION

It is a simple demo version of bank account management system and has all the simple necessary features of it, i.e., deposition of money, withdrawal of money, checking of balance, pin code checking and pin code changing.

It can be improved and made more versatile by using multiple objects of class account and handling multiple accounts.

BIBLIOGRAPHY

- 1. Computer science with C++ by Sumita Arora.**
- 2. Programming in C++ by Robert Lapore.**
- 3. C++ with Herbert Schidt.**
- 4. Windows via C++ by Jeffery Richter.**

