

ANKITA

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# JAVA PROJECT

## BANKING MANAGEMENT SYSTEM

The topic of my project is Banking Management System. Here I have created a system that has basic data of 10 users. Users are allowed to perform six basic functions of their choice and they have to choose which operation they want to perform. Users can read detail, print detail, check balance, withdraw money, deposit money, and if they are done with operation they want to perform they can leave the system too.

### SOURCE CODE:

```
package ClassQuestions;

import javax.swing.plaf.synth.SynthOptionPaneUI;
import java.util.Date;
import java.util.Scanner;

class account{
    double account_no;
    String name;
    String Type;
    double balance;
    double rate=3.14;
    account(int account_no, String name, String Type, Double balance){
//        System.out.println("this is a banking management system");
//        System.out.println("you may create your account and take benefits!");
        this.account_no=account_no;
        this.name=name;
        this.Type=Type;
        this.balance=balance;
    }
    void readDet(){
        System.out.println("this is a banking management system");
        System.out.println("you may create your account and take benefits!");
        System.out.println("Thankyou for choosing option 1, you can see your account details");
        this.account_no=account_no;
        this.name=name;
        this.Type=Type;
    }
}
```

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        this.balance=balance;
    }
    void printDet(){
        System.out.println("Thankyou for choosing option 2, you can see your account
details");
        System.out.print("account no:");
        System.out.println(account_no);
        System.out.print("name:");
        System.out.println(name);
        System.out.print("type of account:");
        System.out.println(Type);
        System.out.print("balance:");
        System.out.println(balance);
        System.out.print("rate:");
        System.out.println(rate);
    }
    double check_balance(){
        System.out.println("Thankyou for choosing option 3, you can see your balance
details");
        if (Type.equals("saving")) {
            balance = balance + (balance * rate);
            System.out.println("balance:" + balance);
        }
        else if(Type.equals("current")){
            balance=balance+(balance*(rate/2));
            System.out.println("balance:"+balance);
        }
        else{
            System.out.println("Invalid Account Type");
        }
        return balance;
    }
    double withdraw(){
        System.out.println("Thankyou for choosing option 4, you can proceed with
withdrawal of money!");
        System.out.print("amount to withdraw:");
        Scanner sc =new Scanner(System.in);
        double n=sc.nextDouble();
        if(n<=balance){
            System.out.println("we are proceeding with you withdrawal request");
            balance=balance-n;
            System.out.println("new balance:"+balance);
        }
        else if(n>balance){
            System.out.println("sorry, you have insufficient balance");
            System.out.print("new balance:"+balance);}
        return balance;
    }
    double deposit(){
        System.out.println("Thankyou for choosing option 5, you can deposit money in
your account");
        System.out.println("amount to deposit:");
        Scanner sc =new Scanner(System.in);
        double amount=sc.nextInt();

```

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        balance=balance+amount;
        System.out.println("your updated balance is");
        System.out.println("new balance:"+balance);
        return balance;
    }
}

```

```

public class gestion3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
//        System.out.print("option opted by user:");
        account obj1 = new account(1, "a", "saving", 10000.0);
        account obj2 = new account(2, "b", "saving", 9000.0);
        account obj3 = new account(3, "c", "saving", 8000.0);
        account obj4 = new account(4, "d", "current", 5000.0);
        account obj5 = new account(5, "e", "current", 6000.0);
        account obj6 = new account(6, "f", "saving", 2000.0);
        account obj7 = new account(7, "g", "current", 11000.0);
        account obj8 = new account(8, "h", "saving", 7000.0);
        account obj9 = new account(9, "i", "current", 13000.0);
        account obj10 = new account(10, "j", "saving", 140000.0);
        System.out.print("WHICH USER IS ACCESSING BANKING MANAGEMENT SYSTEM,plz enter
user number:");
        int user = sc.nextInt();
        if (user == 1) {
            while (true) {
                System.out.println("select the option you want to opt.");
                System.out.println("1)readDet");
                System.out.println("2)printDet");
                System.out.println("3)check balance");
                System.out.println("4)withdraw");
                System.out.println("5)deposit");
                System.out.println("6)exit");
                int option = sc.nextInt();
                if (option != 6) {
                    switch (option) {
                        case 1:
                            System.out.println("readDet");
                            obj1.readDet();
                            break;
                        case 2:
                            System.out.println("printDet");
                            obj1.printDet();
                            break;
                        case 3:
                            System.out.println("check balance");
                            obj1.check_balance();
                            break;
                        case 4:
                            System.out.println("withdraw");
                            obj1.withdraw();
                            break;

```

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        case 5:
            System.out.println("deposit");
            obj1.deposit();
            break;
        case 6:
            System.out.println("exit");
            break;
    }
} else {
    System.out.println("exit");
    break;
}

}

} else if (user == 2) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {
                case 1:
                    System.out.println("readDet");
                    obj2.readDet();
                    break;
                case 2:
                    System.out.println("printDet");
                    obj2.printDet();
                    break;
                case 3:
                    System.out.println("check balance");
                    obj2.check_balance();
                    break;
                case 4:
                    System.out.println("withdraw");
                    obj2.withdraw();
                    break;
                case 5:
                    System.out.println("deposit");
                    obj2.deposit();
                    break;
                case 6:
                    System.out.println("exit");
                    break;
            }
        } else {
            System.out.println("exit");
            break;
        }
    }
}

```

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    }
}

else if (user == 3) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {
                case 1:
                    System.out.println("readDet");
                    obj3.readDet();
                    break;
                case 2:
                    System.out.println("printDet");
                    obj3.printDet();
                    break;
                case 3:
                    System.out.println("check balance");
                    obj3.check_balance();
                    break;
                case 4:
                    System.out.println("withdraw");
                    obj3.withdraw();
                    break;
                case 5:
                    System.out.println("deposit");
                    obj3.deposit();
                    break;
                case 6:
                    System.out.println("exit");
                    break;
            }
        } else {
            System.out.println("exit");
            break;
        }
    }
}

else if (user == 4) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
    }
}

```

```

System.out.println("3)check balance");
System.out.println("4)withdraw");
System.out.println("5)deposit");
System.out.println("6)exit");
int option = sc.nextInt();
if (option != 6) {
    switch (option) {
        case 1:
            System.out.println("readDet");
            obj4.readDet();
            break;
        case 2:
            System.out.println("printDet");
            obj5.printDet();
            break;
        case 3:
            System.out.println("check balance");
            obj5.check_balance();
            break;
        case 4:
            System.out.println("withdraw");
            obj5.withdraw();
            break;
        case 5:
            System.out.println("deposit");
            obj5.deposit();
            break;
        case 6:
            System.out.println("exit");
            break;
    }
} else {
    System.out.println("exit");
    break;
}
}
}
else if (user == 5) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {
                case 1:
                    System.out.println("readDet");
                    obj5.readDet();

```

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        break;
    case 2:
        System.out.println("printDet");
        obj5.printDet();
        break;
    case 3:
        System.out.println("check balance");
        obj5.check_balance();
        break;
    case 4:
        System.out.println("withdraw");
        obj5.withdraw();
        break;
    case 5:
        System.out.println("deposit");
        obj5.deposit();
        break;
    case 6:
        System.out.println("exit");
        break;
    }
    } else {
        System.out.println("exit");
        break;
    }
}

}

}

else if (user == 6) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {
                case 1:
                    System.out.println("readDet");
                    obj6.readDet();
                    break;
                case 2:
                    System.out.println("printDet");
                    obj6.printDet();
                    break;
                case 3:
                    System.out.println("check balance");
                    obj6.check_balance();
                    break;
                case 4:

```

```

        System.out.println("withdraw");
        obj6.withdraw();
        break;
    case 5:
        System.out.println("deposit");
        obj6.deposit();
        break;
    case 6:
        System.out.println("exit");
        break;
    }
} else {
    System.out.println("exit");
    break;
}
}
}
else if (user == 7) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {
                case 1:
                    System.out.println("readDet");
                    obj7.readDet();
                    break;
                case 2:
                    System.out.println("printDet");
                    obj7.printDet();
                    break;
                case 3:
                    System.out.println("check balance");
                    obj7.check_balance();
                    break;
                case 4:
                    System.out.println("withdraw");
                    obj7.withdraw();
                    break;
                case 5:
                    System.out.println("deposit");
                    obj7.deposit();
                    break;
                case 6:
                    System.out.println("exit");
                    break;
            }
        }
    }
}
}

```



```

        }
    } else {
        System.out.println("exit");
        break;
    }
}
}
}
else if (user == 8) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {
                case 1:
                    System.out.println("readDet");
                    obj8.readDet();
                    break;
                case 2:
                    System.out.println("printDet");
                    obj8.printDet();
                    break;
                case 3:
                    System.out.println("check balance");
                    obj8.check_balance();
                    break;
                case 4:
                    System.out.println("withdraw");
                    obj8.withdraw();
                    break;
                case 5:
                    System.out.println("deposit");
                    obj8.deposit();
                    break;
                case 6:
                    System.out.println("exit");
                    break;
            }
        } else {
            System.out.println("exit");
            break;
        }
    }
}
else if (user == 9) {
    while (true) {

```

```

System.out.println("select the option you want to opt.");
System.out.println("1)readDet");
System.out.println("2)printDet");
System.out.println("3)check balance");
System.out.println("4)withdraw");
System.out.println("5)deposit");
System.out.println("6)exit");
int option = sc.nextInt();
if (option != 6) {
    switch (option) {
        case 1:
            System.out.println("readDet");
            obj9.readDet();
            break;
        case 2:
            System.out.println("printDet");
            obj9.printDet();
            break;
        case 3:
            System.out.println("check balance");
            obj9.check_balance();
            break;
        case 4:
            System.out.println("withdraw");
            obj9.withdraw();
            break;
        case 5:
            System.out.println("deposit");
            obj9.deposit();
            break;
        case 6:
            System.out.println("exit");
            break;
    }
} else {
    System.out.println("exit");
    break;
}
}
}
else if (user == 10) {
    while (true) {
        System.out.println("select the option you want to opt.");
        System.out.println("1)readDet");
        System.out.println("2)printDet");
        System.out.println("3)check balance");
        System.out.println("4)withdraw");
        System.out.println("5)deposit");
        System.out.println("6)exit");
        int option = sc.nextInt();
        if (option != 6) {
            switch (option) {

```

```

        case 1:
            System.out.println("readDet");
            obj10.readDet();
            break;
        case 2:
            System.out.println("printDet");
            obj10.printDet();
            break;
        case 3:
            System.out.println("check balance");
            obj10.check_balance();
            break;
        case 4:
            System.out.println("withdraw");
            obj10.withdraw();
            break;
        case 5:
            System.out.println("deposit");
            obj10.deposit();
            break;
        case 6:
            System.out.println("exit");
            break;
    }
    } else {
        System.out.println("exit");
        break;
    }
}
}
else{
    System.out.println("sorry!,INVALID USER NUMBER");
    System.out.println("you are getting automatically logged out of system");
}
}
}

```

## OUTPUT:

If user chooses option 1:

```
C:\Users\kesha\.jdk\openjdk-20\bin\java.exe "-javaagent:C:\Program Files\JetE
WHICH USER IS ACCESSING BANKING MANAGEMENT SYSTEM,plz enter user number:6
select the option you want to opt.
1)readDet
2)printDet
3)check balance
4)withdraw
5)deposit
6)exit
1
readDet
this is a banking management system
you may create your account and take benefits!
Thankyou for choosing option 1, you can see your account details
```

If user chooses option 2:

```
select the option you want to opt.
1)readDet
2)printDet
3)check balance
4)withdraw
5)deposit
6)exit
2
printDet
Thankyou for choosing option 2, you can see your account details
account no:6.0
name:f
type of account:saving
balance:2000.0
rate:3.14
```

If user chooses option 3:

```
select the option you want to opt.  
1)readDet  
2)printDet  
3)check balance  
4)withdraw  
5)deposit  
6)exit  
4  
withdraw  
Thankyou for choosing option 4, you can proceed with withdrawal of money!  
amount to withdraw:2200  
sorry, you have insufficient balance  
new balance:2000.0select the option you want to opt.
```

If user chooses option 4:

```
new balance:2000.0select the option you want to opt.  
1)readDet  
2)printDet  
3)check balance  
4)withdraw  
5)deposit  
6)exit  
3  
check balance  
Thankyou for choosing option 3, you can see your balance details  
balance:8280.0
```

If user chooses option 5:

```
select the option you want to opt.  
1)readDet  
2)printDet  
3)check balance  
4)withdraw  
5)deposit  
6)exit  
5  
deposit  
Thankyou for choosing option 5, you can deposit money in your account  
amount to deposit:  
4000  
your updated balance is  
new balance:12280.0
```

If user chooses option 6:

```
select the option you want to opt.  
1)readDet  
2)printDet  
3)check balance  
4)withdraw  
5)deposit  
6)exit  
6  
exit
```