

**Aim:** Write a java program for Bank Application including with the following services like Balance Enquiry, withdraw , Deposit etc.. Take Different classes for every Service

**Program:**

**BankingApp.java**

```
package Bank_pkg;
import java.util.*;
public class BankingApp {
    public static void main(String[] args) {

        System.out.println("Welcome to Your Bank");
        BankingAccount b=new BankingAccount();
        b.intialize();

    }
}
```

**BankingAccount.java**

```
package Bank_pkg;

public class BankingAccount {
    int amount= 3500;

    public void intialize() {

        Login l1=new Login();
        try {
            l1.acceptInput();
            l1.verify();
        }
        catch(Exception e) {
            try {
                l1.acceptInput();
                l1.verify();
            }
            catch(Exception f){
```

```

        }
    }

    public int getBalance() {
        return amount;
    }

    public void add(int amt) {
        amount = amount+amt;
        System.out.println("Amount Deposited Sucessfully ");
        System.out.println(" ");
        System.out.println("Total Balance: "+amt);
        System.out.println(" ");
    }

    public void withdraw(int amt) {
        System.out.println(" ");
        if (amount<amt) {
            invalid_transaction invalidwithdraw=new inva-
lid_transaction("Invalid Withdrawl");
            System.out.println(invalidwithdraw.getMessage());
        }
        else {
            amount =(amount - amt);
            System.out.println("please collec your "+ amt+"Ru-
pees");

            System.out.println(" ");
            System.out.println("Available Balance: "+amount);
            System.out.println(" ");
        }
    }
}

```

Login.java

```

package Bank_pkg;

import java.io.*;
import java.util.Scanner;
public class Login {
    int ac_number =123456789;
    int ac_pass = 1201;

```

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```

    int ac,pw;

    public void acceptInput() {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter Your Bank Account Number");
        ac=sc.nextInt();
        System.out.println("Enter Password");
        pw=sc.nextInt();
    }

    public void verify() throws Exception{
        if(ac==ac_number && pw==ac_pass) {
            System.out.println("Your Bank Account login Success-
fully");

            BankingAccount b= new BankingAccount();
            System.out.println(" ");
            System.out.println("Your Account Balance is:"
+b.getBalance()+"Rupees");
            System.out.println(" ");
            menu m1=new menu();
            m1.showMenu();
        }
        else {
            invalid_transaction loginfailed=new invalid_transac-
tion("incorrect login Credentials !. ");
            System.out.println(loginfailed.getMessage());
        }
    }
}

```

#### Deposit.java

```

package Bank_pkg;
import java.util.Scanner;
public class Deposit {
    int amt=0;

    public int userInput() {
        System.out.println("Enter your Deposit Amount:");
    }
}

```

```

        Scanner sc=new Scanner(System.in);
        amt=sc.nextInt();

        if(amt<=0) {
            invalid_transaction DepositError=new invalid_trans-
action("invalid Deposit Amount");
            System.out.println(DepositError.getMessage());
            userInput();
        }
        else {
            return amt;
        }

        return amt;
    }
}

```

Menu.java

```

package Bank_pkg;
import java.util.Scanner;
public class menu {
    int selectOption;
    BankingAccount b=new BankingAccount();
    public void showMenu() {
        System.out.println("Please Select An Option");
        System.out.println("press 1 to Deposit");
        System.out.println("press 2 to Withdraw amount");
        System.out.println("press 3 to view Balance");
        System.out.println("press any key to exit");
        System.out.println("");

        Scanner sc=new Scanner(System.in);
        System.out.println("");

        selectOption =sc.nextInt();
        switch (selectOption) {
            case 1:

                Deposit d=new Deposit();
                int depamt =d.userInput();
                b.add(depamt);
                showMenu();
            }
        }
    }
}

```

```

        break;

        case 2:
            System.out.println("Enter Withdraw Amount");
            int withamt=sc.nextInt();
            b.withdraw(withamt);
            showMenu();
            break;

        case 3:
            System.out.println("Your Account Balance is:"
+b.getBalance()+"Rupees");
            showMenu();
            break;

        case 4:
            System.exit(0);
            break;

    }
}
}

```

invalid\_transaction.java

```

package Bank_pkg;

public class invalid_transaction {
    String errorMessage;
    public invalid_transaction(String message) {
        errorMessage=message;
    }

    public String getMessage() {
        return errorMessage;
    }
}

```

## Output:

```
eclipse-workspace - BankProject1201/src/Bank_pkg/invalid_transaction.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Welcome to Your Bank
Enter Your Bank Account Number123456789
Enter Password
1201
Your Bank Account login Successfully

Your Account Balance is:3500Rupees

Please Select An Option
press 1 to Deposit
press 2 to Withdraw amount
press 3 to view Balance
press any key to exit

1
Enter your Deposit Amount:
1500
Amount Deposited Successfully

Total Balance: 1500

Please Select An Option
press 1 to Deposit
press 2 to Withdraw amount
press 3 to view Balance
press any key to exit

2
Enter Withdraw Amount
500

please collec your 500Rupees

Available Balance: 4500

Please Select An Option
press 1 to Deposit
press 2 to Withdraw amount
press 3 to view Balance
press any key to exit

3
Your Account Balance is:4500Rupees
```

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