

## **BANK**

```
package inheritance;
```

```
import java.util.*;
```

```
interface BankOperations { //interface
```

```
    void deposit();
```

```
    void withdraw();
```

```
    void checkBalance();
```

```
    void exit();
```

```
}
```

```
    abstract class BankAccount implements BankOperations  
    { //abstract
```

```
        protected String name;
```

```
        protected int accNo, phnNo, age;
```

```
        protected long AadharNo;
```

```
        protected double balance = 0;
```

```
        double amount=0;
```

```
        protected Scanner s = new Scanner(System.in);
```

```
        int choice;
```

```
        BankAccount() {
```

```
        System.out.println("WELCOME TO E-BANK");

        System.out.println("RASIYANA BANK EASYANA
BANK");

        System.out.println("DEAR CUSTOMER WE ARE
HAPPY TO YOU CONTACT OUR BANK");

    }
```

```
abstract void acc();
```

```
void ageCheck() {

    System.out.println("Enter your age:");

    age = s.nextInt();

    if (age > 18) {

        list();

    } else {

        System.out.println("Your age must be above 18");

    }

}
```

```
void list() {

    System.out.println("1.ACCOUNT CREATION");

    System.out.println("2.DEPOSIT MONEY");

}
```

```
        System.out.println("3.WITHDRAW MONEY");  
        System.out.println("4.CHECK BANK BALANCE");  
        System.out.println("5.EXIT");  
        System.out.print("\nEnter your choice:");  
        choice = s.nextInt();  
    }  
}
```

```
class SavingsAccount extends BankAccount {  
    @Override  
    void acc() {  
        switch (choice) {  
            case 1:  
                System.out.print("ENTER YOUR NAME:");  
                name = s.next();  
                System.out.print("ENTER YOUR PHONE  
NUMBER:");  
                phnNo = s.nextInt();  
                System.out.print("ENTER YOUR AADHAR  
NUMBER:");  
                AadharNo = s.nextLong();
```

```
    }  
}
```

```
void disp() {  
    System.out.println("ACCOUNT DETAILS");  
    System.out.println("_____");  
    System.out.println("DEAR " + name + " YOU  
SUCCESSFULLY CREATED THE ACCOUNT");  
    System.out.println("NAME:" + name);  
    System.out.println("AGE:" + age);  
    System.out.println(name + " YOUR PERSONAL  
ACCOUNT NUMBER:" +(long) (Math.random() * 10000000 +  
1000000));  
    System.out.println("PHONE NUMBER:" + phnNo);  
    System.out.println("AADHAR NUMBER:" +  
AadharNo);  
    System.out.println("-----  
-----");  
}
```

```
void choiccheck() {  
    if (choice == 1) {  
        System.out.println("DEAR CUSTOMER YOU  
ALREADY CREATED THE ACCOUNT GO FOR NEXT STEPS");
```

```
    }  
}
```

@Override

```
public void deposit() {  
    switch(choice) {  
        case 2:  
            }  
        System.out.println("\nDEPOSIT DETAILS");  
        System.out.println("_____");  
        System.out.print("Enter your Account Number:");  
        accNo = s.nextInt();  
        System.out.print("Enter your Amount:");  
        amount = s.nextDouble();  
        if (amount > 0) {  
            balance += amount;  
            System.out.println("Deposited " + amount + "  
Successfully...");  
            System.out.println("-----  
-----");  
        } else {
```

```
        System.out.println("Invalid amount for deposit.");

    }

}
```

@Override

```
public void withdraw() {
    switch(choice) {
        case 3:
            }
        System.out.println("\nWITHDRAW DETAILS");
        System.out.println("_____");
        System.out.print("Enter your Account Number:");
        accNo = s.nextInt();
        System.out.print("Enter your Amount:");
        amount = s.nextDouble();
        if (amount > 0 && amount <= balance) {
            balance -= amount;
```

```

        System.out.println("Withdrawn " + amount + "
Successfully...");

        System.out.println("-----
-----");

    } else {

        System.out.println("Invalid withdrawal amount.");

    }

}

```

@Override

```

public void checkBalance() {

    switch(choice) {

        case 4:

        }

        System.out.println("BALANCE DETAILS");

        System.out.println("_____");

        System.out.print("Enter your Account Number:");

        accNo = s.nextInt();

        System.out.println("Current Balance: " + balance);

        System.out.println("-----
-----");

    }
}

```

```
@Override  
  
public void exit() {  
    switch(choice) {  
        case 5:  
            }  
    System.out.println("Exiting.....");  
  
}  
  
}
```

```
public class Basic {  
    public static void main(String[] args) {  
        SavingsAccount a = new SavingsAccount();  
        a.ageCheck();  
        a.acc();  
        a.disp();  
        a.list();  
        a.choiccheck();  
        a.deposit();  
    }  
}
```



```
        a.list();

        a.withdraw();

        a.list();

        a.checkBalance();

        a.list();

        a.exit();

    }

}
```

## OUTPUT:

WELCOME TO E-BANK  
RASIYANA BANK EASYANA BANK  
DEAR CUSTOMER WE ARE HAPPY TO YOU CONTACT OUR  
BANK

Enter your age:

19

1.ACCOUNT CREATION  
2.DEPOSIT MONEY  
3.WITHDRAW MONEY  
4.CHECK BANK BALANCE  
5.EXIT

Enter your choice:1

ENTER YOUR NAME:Ilakkiya

ENTER YOUR PHONE NUMBER:73055834

ENTER YOUR AADHAR NUMBER:1234353

ACCOUNT DETAILS

---

DEAR Ilakkiya YOU SUCCESSFULLY CREATED THE  
ACCOUNT

NAME:Ilakkiya

AGE:19

Ilakkiya YOUR PERSONAL ACCOUNT NUMBER:5766957

PHONE NUMBER:73055834

AADHAR NUMBER:1234353

---

1.ACCOUNT CREATION

2.DEPOSIT MONEY

3.WITHDRAW MONEY

4.CHECK BANK BALANCE

5.EXIT

Enter your choice:2

DEPOSIT DETAILS

---

Enter your Account Number:5766957

Enter your Amount:500.00

Deposited 500.0 Successfully...

---

1.ACCOUNT CREATION

2.DEPOSIT MONEY

3.WITHDRAW MONEY

4.CHECK BANK BALANCE

5.EXIT

Enter your choice:3

WITHDRAW DETAILS

---

Enter your Account Number:5766957

Enter your Amount:250

Withdrawn 250.0 Successfully...

---

- 1.ACCOUNT CREATION
- 2.DEPOSIT MONEY
- 3.WITHDRAW MONEY
- 4.CHECK BANK BALANCE
- 5.EXIT

Enter your choice:4

BALANCE DETAILS

Enter your Account Number:5766957

Current Balance: 250.0

- 
- 1.ACCOUNT CREATION
  - 2.DEPOSIT MONEY
  - 3.WITHDRAW MONEY
  - 4.CHECK BANK BALANCE
  - 5.EXIT

Enter your choice:5

Exiting.....