```java
import java.util.Scanner;

abstract class Account{
    String c_name, acc_type;
    int acc_num;
    double balance;
    int minbalance = 2000;
    Account(String c_name, int acc_num, double balance){
        this.c_name = c_name;
        this.acc_num = acc_num;
        this.balance = balance;
        this.acc_type = acc_type;
    }

    abstract void addbal(double amount);
    abstract void display();
    abstract void withdraw(double amount);
}

class curr_acct extends Account{
    curr_acct(String c_name, int acc_num, double balance){
        super(c_name, acc_num, balance);
        System.out.println("Details ot the customer:");
        System.out.println("Customer name: " +c_name +"\tAccount number: " +acc_num+ "\tBalance: " +balance+ "Account type
    }

    void addbal(double amount){
        this.balance += amount;
    }

    void  display(){
        System.out.println("The balance is:" +this.balance);
    }

    void withdraw(double amount){
        if(this.balance<amount){
            System.out.println("Insufficient funds");
            System.out.println("Yor balance is: " +this.balance);
            return;
        }
```

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            System.out.println("Yor balance is: " +this.balance);
            return;
        }
        this.balance = this.balance - amount;
        if(this.balance<minbalance){
            this.balance = this.balance - this.balance*0.5;
            System.out.println("A penalty of Rs. " +this.balance*0.5 + "has been charged as minimum balance is not satis
            System.out.println("Updated Balance: " +this.balance);
            System.out.println("Cannot withdraw");
        }

        else if(balance> minbalance){
            this.balance = this.balance - amount;
            System.out.println("Balance is: " +this.balance);
        }
    }
}

class sav_acct extends Account{
    sav_acct(String c_name, int acc_num, double balance){
        super(c_name, acc_num, balance);
        System.out.println("Customer name: " +c_name +"\tAccount number: " +acc_num+ "\tBalance: " +balance+ "Account typ
    }
    void addbal(double amount){
        this.balance += amount;
    }

    void display(){
        System.out.println("The balance is:" +this.balance);
    }

    void withdraw(double amount){
        if(this.balance<amount){
            System.out.println("Insufficient funds");
            System.out.println("Yor balance is: " +this.balance);
        }
        this.balance = this.balance - amount;
        if(this.balance<minbalance){
            this.balance = this.balance - this.balance*0.5;
            System.out.println("A penalty of Rs. " +this.balance*0.5 + "has been charged as minimum balance is not satisfi
            System.out.println("Updated Balance: " +this.balance);
```
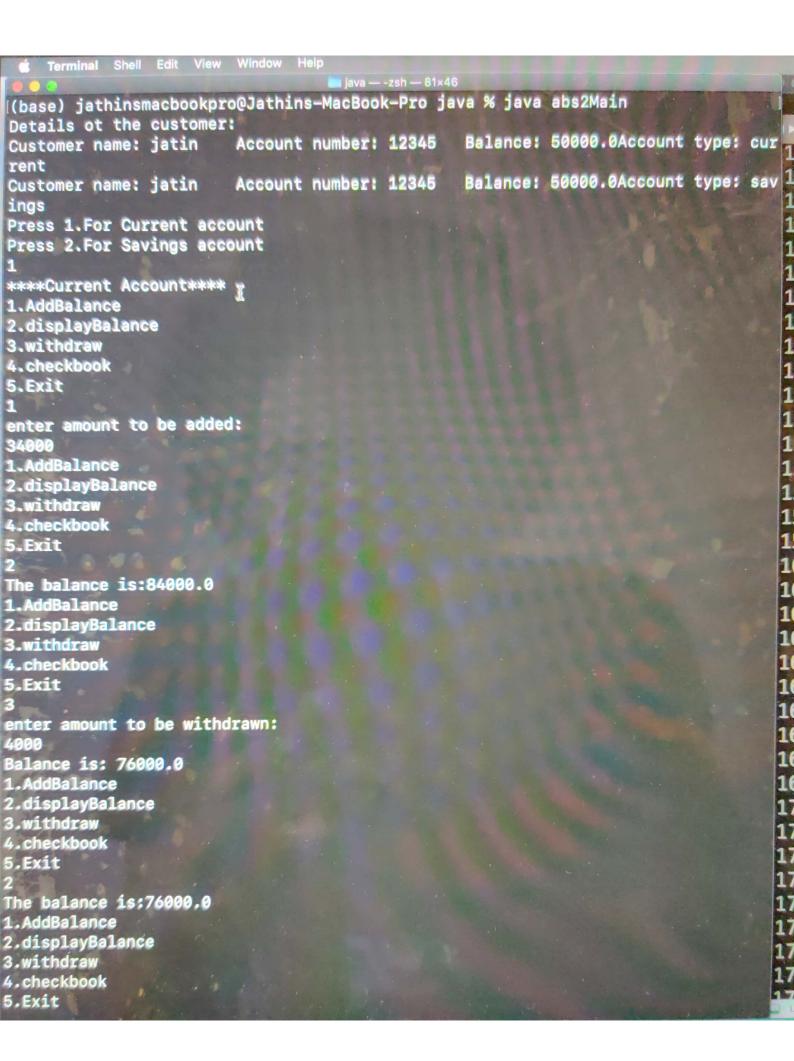
```java
            System.out.println("A penalty of Rs. " +this.balance*0.5 + "has been charged as minimum balance is not sati
            System.out.println("Updated Balance: " +this.balance);
            System.out.println("Cannot withdraw");
        }
        else if(balance> minbalance){
            this.balance = this.balance - amount;
            System.out.println("Balance is: " +this.balance);
        }
    }

    void intrest(double amount){
        int time = 3, n=1;
        System.out.println("Rate of intrest is 0.2");
        this.balance = this.balance*Math.pow(1+(0.2)/n, (nt));
    }
}

class abs2Main{
    public static void main(String args[]){
        int choice,ch,n=1;
        double amount;
        Scanner s1 = new Scanner(System.in);
        curr_acct c = new curr_acct("jatin", 12345, 50000);
        sav_acct s = new sav_acct("jatin", 12345, 50000);
        System.out.println("Press 1.For Current account\nPress 2.For Savings account");
        choice = s1.nextInt();
        switch(choice){
            case 1: System.out.println("****Current Account****");
                    while(n!=0){
                        System.out.println("1.AddBalance\n2.displayBalance\n3.withdraw\n4.checkbook\n5.Exit");
                        ch = s1.nextInt();
                        String reciever;
                        double recamount;
                        switch(ch){
                            case 1:
                                System.out.println("enter amount to be added:");
                                amount = s1.nextDouble();
                                c.addbal(amount);
                                break;
```

```java
switch(ch){
    case 1:
        System.out.println("enter amount to be added:");
        amount = s1.nextDouble();
        c.addbal(amount);
        break;

    case 2:
        c.display();
        break;

    case 3:
        System.out.println("enter amount to be withdrawn:");
        amount = s1.nextDouble();
        c.withdraw(amount);
        break;

    case 4:
        System.out.println("Enter the name of the reciever:");
        reciever = s1.next();
        System.out.println("Enter amount to be debited to reciever:");
        recamount = s1.nextDouble();
        if(recamount>c.balance){
            System.out.println("Inssuficient Balance");
        }
        else{
            System.out.println("Amount of " +recamount+ "sent to" +reciever);
            c.balance = c.balance - recamount;
            System.out.println("Balance: " +c.balance);
            s.balance = c.balance;
        }

    case 5:
        n=0;
        break;

    default: System.out.println("Invalid input");
    }
}
break;
```

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                          break;
                  default: System.out.println("Invalid input");
              }
          }
          break;

  case 2: System.out.println("****Savings Account****");
          while(n!=0){
              System.out.println("1.AddBalance\n2.displayBalance\n3.withdraw\n4.Exit");
              ch = s1.nextInt();
              switch(ch){
                  case 1:
                      System.out.println("enter amount to be added:");
                      amount = s1.nextDouble();
                      s.addbal(amount);
                      break;

                  case 2:
                      s.display();
                      break;

                  case 3:
                      System.out.println("enter amount to be withdrawn:");
                      amount = s1.nextDouble();
                      s.withdraw(amount);
                      break;

                  case 4:
                      n=0;

                  default: System.out.println("Invalid input");
              }
          }
          break;

  default: System.out.println("Invalid input");
      }
  }
}
```

```
(base) jathinsmacbookpro@Jathins-MacBook-Pro java % java abs2Main
Details ot the customer:
Customer name: jatin     Account number: 12345   Balance: 50000.0Account type: cur
rent
Customer name: jatin     Account number: 12345   Balance: 50000.0Account type: sav
ings
Press 1.For Current account
Press 2.For Savings account
1
****Current Account**** ⌶
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
1
enter amount to be added:
34000
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
2
The balance is:84000.0
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
3
enter amount to be withdrawn:
4000
Balance is: 76000.0
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
2
The balance is:76000.0
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
```

```
2.displayBalance
3.withdraw
4.checkbook
5.Exit
3
enter amount to be withdrawn:
4000
Balance is: 76000.0
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
2
The balance is:76000.0
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
3
enter amount to be withdrawn:
75500
A penalty of Rs. 125.0has been charged as minimum balance is not satisfied
Updated Balance: 250.0
Cannot withdraw
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
2
The balance is:250.0
1.AddBalance
2.displayBalance
3.withdraw
4.checkbook
5.Exit
4
Enter the name of the reciever:
john
Enter amount to be debited to reciever:
150
Amount of 150.0sent tojohn
Balance: 100.0
(base) jathinsmacbookpro@Jathins-MacBook-Pro java %
```