```
8] Bank Account
  Impresent forma. Util. Scanner:
  Class Account
    String austomaniame;
     long account Number;
    Storng account Type;
    double balance;
    public Luciunt ( Strong customalance, long auscutiumber,
     Storng ouwent type, double bolance)
        thes. customer Name = customa Name ;
        thes - oucount Number = account Number ;
        thes. oursunt type = account type;
         thes. balance = balance;
      hubble vord deposet (double amound)
           balance + = ermount;
           SOP ("Deposet successful");
            SUP( " Updated balance : "+ balance);
       hubble rood desplay Balance ()
           SOD (" Lecourt Number: " + account Number);
           SOP (" Customes Warne: " + Customes Warne);
            SOP (" Account type: " + accountlype) .
            SOP("Bolance: " 4 bolance);
    class sanded extends Account
         public & butlet ( storng customes Name, long account Numbers
      clause balance)
            SOP (customer Name, vucantinanta, "Sourngs", balance);
        3
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```
public raid compute And Dopost Interest (double suite)
   double enterest a balance + seats 100%
   balance + = Interest;
    SOP ( " Interest computed and depended");
     SOD ("Obdated bolance: " + balance);
  bubble vord withduans (double owneunt)
      P) (amount 2 = bollonce)
         bodance - = amount;
          SOP (" Wethdurwal successfur ")
           SOD ("thedoded balance:" + balance)
    else
         SOP ("Insufferent Lunds.");
          SODI"WPHIderawal Jatter ")
      3
 publike class Curracet extends Account
     double menenum Balance;
     double seewite Change's
    public Cura Aut ( String westomer Namo, long occount Number o
    double bollance, double menemumBalance, double remerechange)
       Suber (wetomer Normo , aucount Number o "Cuevent", balance);
        thes. mensmum Balance = menonum Balance ;
        this. seewise change : seewise change;
     4
    pervote vord chockumenum Balance()
      Pf (amount & = balance)
          balance - = amount
           * 6 ( bodance & manghum Bodance)
         ? battaner -= scarperchange's
```

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SOP ("Menemum balance not marntained.)
     SDP(" Sewrie change &mbosed")
      SOP ("Ubdated bolance: " + balance) &
  4
 public void withduan (double amount)
    P) (amount < = bollance)
       balance -= simount's
       SOP(" WEtholiomand successful!)
        SOP(" Updoted balance: " + balance);
         theck NonPomum Balance () j
   else
       SOP ("Insufficient funds, we offollowed forled");
public class Bonk
        bsom (Strong (Jaugs)
        Scanner SI = new Scouner (system, Pn);
         SOP (" Enter customer name for savery Account: ");
         Streng SCN = SI . next Leno ();
         system out - perfortin ("Enter account number pay
         eavings account");
         long SAN = SI . next long 17;
        SOP! " Enter enfital batance 600 sowings Account: ");
         double SIB: SI. northouble();
         SAVACET SA EXEND SON ACET (SUN, SAN, SIB);
        SOP (" Enter automes norme for auwent Account: ");
        Storng CON = SI. neout();
         SOP (" Enter account number for Cureunt Accent ");
        long CAN: SI. next Long ();
         SOP (" Enter 9194 Pal balance for current Account ");
```

```
of Oldwood board 12 = 813 planst
SOP (" soles manamum balance for wewent Account : ");
" ( Island treat 12: 32 sloward
Comor Acet (A = none amordect (con + can, c 18, MB, so);
SOD (" some deposet amount for eavenge Account : ");
 double SDA = SI. next Double ();
 SA. deposet (SDA);
  SOP ( " Enter and event events for savengs Account : ").
  double SIR=SI-next Double ();
  SA . compute And soposet Interest (2112);
  SOP (" Enter deposet amount for moment Account :");
   double CDA = 21. next Double ();
   (A . deposet (CDA);
   Sup P. ("Enter wollderaneol amount for awwent scient:"),
   double (WA = SI. nent Double ();
    (A. wethdenous (CWA);
    SOP ("Foral Balance:");
    SOP ( " can engy Account :") >
    SA. desploy Balayer );
    SOP ( Dewent Account " ");
    (A, desployBalance();
3
```

Output:

Enter account number for eavenge Account: 202025
Enter Porter balance for eavenge Account: 202025
Enter porter balance for eavent Account: 10000
Enter account number for current Account: Reetu
Enter account number for current Account: 202016
Enter account number for current Account: 1000
Enter orespond balance for account Account: 1000
Enter orenemm balance for account Account: 5000
Ochoset successful.

Updated balance: 15000

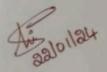
Enter enterest mate for soning Account: 4 Interest computed and deposited.

Updated bolance: 15600.0

WPHderaw

Ender wethereneal amount for son engr Account: 100 hothdereneal successfull-

Updated balance: 14900.0



```
import java.util.Scanner;
class Account {
    protected String name;
    protected int accno;
    protected double balance;
    public void get info() {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter Name: ");
        name = sc.nextLine();
        System.out.print("Enter Account Number: ");
        accno = sc.nextInt();
    }
    public void deposit(double amount) {
        balance += amount;
        System.out.println("Amount deposited successfully.");
    }
    public void display() {
        System.out.println("Name: " + name);
        System.out.println("Account Number: " + accno);
        System.out.println("Balance: " + balance);
    }
}
class Cur acct extends Account {
    private final double min balance = 500;
    private final double penalty = 100;
    public void withdraw(double amount) {
        if (balance - amount >= min balance) {
            balance -= amount;
            System.out.println("Amount withdrawn successfully.");
        } else {
            System.out.println("Insufficient balance for
withdrawal.");
        }
        check min balance();
    private void check min balance() {
        if (balance < min balance) {</pre>
```

```
balance -= penalty;
            System.out.println("Penalty imposed for falling below
minimum balance.");
   }
}
class Sav acct extends Account {
   private final double interest rate = 0.04;
   public void compute interest() {
        double interest = balance * interest_rate;
        balance += interest;
        System.out.println("Interest credited successfully.");
    }
}
class Bank {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 1 for Current Account or 2 for
Savings Account: ");
        int choice = sc.nextInt();
        Account acc;
        if (choice == 1) {
            acc = new Cur acct();
        } else {
            acc = new Sav acct();
        acc.get_info();
        while (true) {
            System.out.println("\nMenu:");
            System.out.println("1. Deposit");
            System.out.println("2. Withdraw");
            System.out.println("3. Display Balance");
            System.out.println("4. Compute Interest (Savings Account
only)");
            System.out.println("5. Exit");
            System.out.print("Enter your choice: ");
            int choice2 = sc.nextInt();
            switch (choice2) {
```

```
case 1:
                    System.out.print("Enter amount to deposit: ");
                    double amount = sc.nextDouble();
                    acc.deposit(amount);
                    break;
                case 2:
                    if (acc instanceof Sav acct) {
                         System.out.println("Withdrawal not allowed
for Savings Account.");
                     } else {
                         System.out.print("Enter amount to withdraw:
");
                         amount = sc.nextDouble();
                         ((Cur acct) acc).withdraw(amount);
                     }
                    break;
                case 3:
                    acc.display();
                    break;
                case 4:
                    if (acc instanceof Sav acct) {
                         ((Sav_acct) acc).compute_interest();
                         System.out.println("Interest computation not
applicable for Current Account.");
                    }
                    break;
                case 5:
                    System.exit(0);
                default:
                    System.out.println("Invalid choice.");
        }
    }
}
OUTPUT :
Enter 1 for Current Account or 2 for Savings Account:
1
Enter Name: Clara
Enter Account Number: 1122334455
Menu:
```

```
1. Deposit
2. Withdraw
3. Display Balance
4. Compute Interest (Savings Account only)
5. Exit
Enter your choice: 1
Enter amount to deposit: 1000
Amount deposited successfully.
Menu:
1. Deposit
2. Withdraw
3. Display Balance
4. Compute Interest (Savings Account only)
5. Exit
Enter your choice: 2
Enter amount to withdraw: 500
Amount withdrawn successfully.
Menu:
1. Deposit
2. Withdraw
3. Display Balance
4. Compute Interest (Savings Account only)
5. Exit
Name: Clara
Account Number: 1122334455
Balance: 500.0
Menu:
1. Deposit
2. Withdraw
3. Display Balance
4. Compute Interest (Savings Account only)
5. Exit
Enter your choice: 5
PS C:\Users\ADMIN\Documents\CSE III\java prgms> cd
"c:\Users\ADMIN\Documents\CSE III\java prgms\" ; if ($?) { javac
Bank.java } ; if ($?) { java Bank }
Enter 1 for Current Account or 2 for Savings Account:
Enter Name: Rosy
Enter Account Number: 101202303
Menu:
```

BANK

- 1. Deposit
- 2. Withdraw
- 3. Display Balance
- 4. Compute Interest (Savings Account only)
- 5. Exit

Enter your choice: 1

Enter amount to deposit: 5000

Amount deposited successfully.

Menu:

- 1. Deposit
- 2. Withdraw
- 3. Display Balance
- 4. Compute Interest (Savings Account only)
- 5. Exit

Enter your choice: 2

Withdrawal not allowed for Savings Account.

Menu:

- 1. Deposit
- 2. Withdraw
- 3. Display Balance
- 4. Compute Interest (Savings Account only)
- 5. Exit

Enter your choice: 500

Invalid choice.

Menu:

- 1. Deposit
- 2. Withdraw
- 3. Display Balance
- 4. Compute Interest (Savings Account only)
- 5. Exit

Enter your choice: 4

Interest credited successfully.

Menu:

- 1. Deposit
- 2. Withdraw
- 3. Display Balance
- 4. Compute Interest (Savings Account only)
- 5. Exit

Enter your choice: 3

Name: Rosy

Account Number: 101202303

BANK

Balance: 5200.0

Menu:

- 1. Deposit
- 2. Withdraw
- 3. Display Balance
- 4. Compute Interest (Savings Account only)
- 5. Exit

Enter your choice: 5