```java
package Bank;

import java.util.Scanner;

// Superclass
class Bankac {
    String acno;
    double balance;
    String name;

    Bankac() {
        acno = null;
        balance = 0;
        name = null;
    }

    Bankac(String accountno, double balance, String name) {
        this.acno = accountno;
        this.balance = balance;
        this.name = name;
    }

    public void deposit(double amount) {
        balance += amount;
        System.out.println("₹" + amount + " deposited successfully.");
    }

    public void withdraw(double amount) {
        if (amount <= balance) {
            balance -= amount;
            System.out.println("₹" + amount + " withdrawn successfully.");
        } else {
            System.out.println("Insufficient balance");
        }
    }

    public void showBalance() {
        System.out.println("Current Balance: ₹" + balance);
    }

    public void displayDetails() {
        System.out.println("Account Holder: " + name);
        System.out.println("Account Number: " + acno);
        System.out.println("Balance: ₹" + balance);
    }
}

// Subclass
public class SavingAccount extends Bankac {
    double rate;

    SavingAccount() {
        super();
        rate = 0;
    }

    SavingAccount(String accountno, double balance, String name, double rate) {
        super(accountno, balance, name);
```

```
59          this.rate = rate;
60      }
61
62      public double calInterest() {
63          return (balance * rate * 1) / 100;
64      }
65
66      public static void main(String[] args) {
67          Scanner sc = new Scanner(System.in);
68
69          // Input details once
70          System.out.print("Enter Account Number: ");
71          String accountno = sc.nextLine();
72
73          System.out.print("Enter Name: ");
74          String name = sc.nextLine();
75
76          System.out.print("Enter Balance: ");
77          double balance = sc.nextDouble();
78
79          System.out.print("Enter Interest Rate: ");
80          double rate = sc.nextDouble();
81
82          // Create SavingAccount object
83          SavingAccount sa1 = new SavingAccount(accountno, balance, name, rate);
84
85          int choice;
86          do {
87              // Display menu
88              System.out.println("\nMenu");
89              System.out.println("1. Display Account Details");
90              System.out.println("2. Deposit");
91              System.out.println("3. Withdraw");
92              System.out.println("4. Show Balance");
93              System.out.println("5. Calculate Interest");
94              System.out.println("6. Exit");
95              System.out.print("Enter your choice: ");
96              choice = sc.nextInt();
97
98              // Handle menu options
99              switch (choice) {
100                 case 1:
101                     sa1.displayDetails();
102                     break;
103
104                 case 2:
105                     System.out.print("Enter amount to deposit: ");
106                     double depAmount = sc.nextDouble();
107                     sa1.deposit(depAmount);
108                     break;
109
110                 case 3:
111                     System.out.print("Enter amount to withdraw: ");
112                     double withAmount = sc.nextDouble();
113                     sa1.withdraw(withAmount);
114                     break;
115
116                 case 4:
```

```
117                     sa1.showBalance();
118                     break;
119
120                 case 5:
121                     double interest = sa1.calInterest();
122                     System.out.println("Calculated Interest for 1 year: ₹" + interest);
123                     break;
124
125                 case 6:
126                     System.out.println("Exiting... Thank you!");
127                     break;
128
129                 default:
130                     System.out.println("Invalid choice. Please try again.");
131             }
132         } while (choice != 6);
133
134         sc.close();
135     }
136 }
```