<u>LAB 5 program – 2/11/2020</u>

```
import java.util.Scanner;
abstract class Account {
  String cName, accType;
  long accNo;
  double bal;
  final double minBal = 1000.0;
  Account(String cName, long accNo, double bal, String
accType) {
    this.accNo = accNo;
    this.cName = cName;
    this.bal = bal;
    this.accType = accType;
  }
  abstract void addBal(double amt);
```

```
abstract void dispBal();
  abstract void withBal(double amt);
}
class Curr_acct extends Account {
  Curr acct(String cName, long accNo, double bal) {
    super(cName, accNo, bal, "Current");
    System.out.println("name: " + cName + "\taccno: " + accNo
+ "\tbal: " + bal + "\ttype: " + accType);
  }
  void addBal(double amt) {
    this.bal += amt;
  }
  void dispBal() {
    System.out.println("Your balance is: " + this.bal);
```

```
void withBal(double amt) {
   if (this.bal == 0 | | amt > this.bal) {
    System.out.println("withdrawal not possible");
   }else{
  this.bal -= amt;
  checkBal();
   }
void checkBal() {
  if (this.bal < minBal) {</pre>
    this.bal -= this.bal * 0.02;
  }
```

}

```
class Sav_acct extends Account {
  Sav acct(String cName, long accNo, double bal) {
    super(cName, accNo, bal, "Savings");
    System.out.println("name: " + cName + "\taccno: " + accNo
+ "\tbal: " + bal + "\ttype: " + accType);
  }
  void addBal(double amt) {
    this.bal += amt;
    addIntr();
  }
  void addIntr() {
    this.bal += this.bal * 0.07;
  }
  void dispBal() {
    System.out.println("Your balance is: " + this.bal);
  }
```

```
void withBal(double amt) {
    if (this.bal == 0 | | amt > this.bal) {
       System.out.println("withdrawal not possible");
    }else{
    this.bal -= amt;
  }
class Account_test{
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    Double amt;
    int flag = 0;
    while (flag == 0) {
```

```
System.out.println("1:Current acc.\n2:Savings
acc.\ndefault:exit");
      int ch = sc.nextInt();
      String nam;
      long acno;
      double balan;
      switch (ch) {
         case 1:
           System.out.println("Enter name, acc no, initial
balance in order:");
           nam = sc.next();
           acno = sc.nextLong();
           balan = sc.nextDouble();
           Curr_acct c = new Curr_acct(nam, acno, balan);
           System.out.println("\nCurrent_acct\n");
           int flag1 = 0;
           while (flag1 == 0) {
```

```
System.out.println("1:Addamount\n2:displayBalance\n3:withdr
aw\ndefault:exit");
             int ch1 = sc.nextInt();
             switch (ch1) {
               case 1:
                 System.out.println("enter amt to be added:");
                 amt = sc.nextDouble();
                 c.addBal(amt);
                 break;
               case 2:
                 c.dispBal();
                 break;
               case 3:
                 System.out.println("enter amt to be
withdrawn:");
                 amt = sc.nextDouble();
```

```
c.withBal(amt);
                  break;
                default:
                  flag1 = 1;
             }
           }
           break;
         case 2:
           System.out.println("\nSavings_acct\n");
           System.out.println("Enter name, acc no, initial
balance in order:");
           nam = sc.next();
           acno = sc.nextLong();
           balan = sc.nextDouble();
           Sav_acct s = new Sav_acct(nam, acno, balan);
           int flag2 = 0;
           while (flag2 == 0) {
```

```
System.out.println("1:AddBal\n2:displayBal\n3:withdraw\ndefa
ult:exit");
             int ch2 = sc.nextInt();
             switch (ch2) {
               case 1:
                  System.out.println("enter amt to be added:");
                  amt = sc.nextDouble();
                  s.addBal(amt);
                  break;
               case 2:
                  s.dispBal();
                  break;
               case 3:
                  System.out.println("enter amt to be
withdrawn:");
                  amt = sc.nextDouble();
```

```
s.withBal(amt);
                   break;
                default:
                   flag2 = 1;
              }
            }
            break;
         default:
            flag = 1;
       }
    }
}
```

```
C:\Users\admin\Documents>java Account_test
1:Current acc.
2:Savings acc.
default:exit
Savings_acct
Enter name, acc no, initial balance in order:
Sharat 12
3000
name: Sharat
               accno: 12 bal: 3000.0 type: Savings
1:AddBal
2:displayBal
3:withdraw
default:exit
enter amt to be added:
4000
1:AddBal
2:displayBal
3:withdraw
default:exit
```

```
3:withdraw
default:exit

enter amt to be withdrawn:
200
1:AddBal
2:displayBal
3:withdraw
default:exit
3
```