classmate
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Week 8 Bank

```
import java.util.Scanner;
import java.lang.Math;
class Account {
    String name;
    int account_no;
    Scanner inp = new Scanner(System.in);
    void getData() {
        System.out.print("Enter user name: ");
        name = inp.nextLine();
        System.out.print("Enter account no: ");
        account_no = inp.nextInt();
    }
}
class saving_acc extends account {
    double amount;
    Scanner inp = new Scanner(System.in);
    saving_acc() {
        getData();
        System.out.print("Enter the
                amount you want
                to deposit : ");
        amount = inp.nextInt();
    }
    void cal_compound Interest() {
        double CI;
        int n, r, t;
        System.out.print("Enter rate
                of interest : ");
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        r = inp.nextInt();
        System.out.print("Enter time
                          period : ");
        n = inp.nextInt();
        CI = (double) amount* Math.pow
                          ((1+(r/100)),n);
        System.out.print(" final amount : "
                          +(CI + amount);
        amount = amount + CI;
    }
    void cheque_book_facility() {
        System.out.println("Cheque book
          facility not available\n");
        }
    double display() {
        return amount;
    }
    double withdraw(int w_amount) {
        if(w_amount > amount ) {
            System.out.print("Not Enough
                          Balance");
            return amount;
        }
        amount = amount - w_amount;
        if(amount < 500) {
            System.out.print("Your balance
            has fallen below min.
            balance\n Rs 50 will be
            deducted.\n");
```

```
        amount = amount - 50;
    }
    return amount;
}

class current_acc extends Account {
    Scanner inp = new Scanner(System.in);
    int amount;

    current_acc() {
        getData();
        System.out.print("Enter the
                amount you
                want to deposit: ");
        amount = inp.nextInt();
    }
    double display() {
        return amount;
    }
    double withdrawal(int w_amt){
        if(w_amt > amount) {
            System.out.println("Not
                enough Balance");
            return amount;
        } amount = amount - w_amt;
        if (amount < 500) {
            System.out.println("your Balance
            has fallen below min.
            balance. Rs 50 will be
            deducted");
```

```
        return amount = amount - 10;
    }
    return amount;
} }
void chequebook_facility() {
    System.out.print("Cheque book
                    is available");
}
}

class week8Bank {
public static void main(String[]args){
    Scanner inp = new Scanner(System.in);
    System.out.print("1. Saving Acc\n
                    2. Current Acc\n");
    System.out.print("Enter choice");
    int opt = inp.nextInt();

    if(opt == 1){
        Saving acc5 = new Saving acc();
System.out.print("1. Cal Compound I.\n
                    2. Check for Cheque
                    Book\n 3. Balance\n
                    4. Withdraw\n
                    5. Exit");
System.out.print("Your choice");
int c = inp.nextInt();
```

```
while(c1 = 5){
 switch(c){
  case 1: s.cal_CompoundInterest();
          break;
  case 2: s.chequee_book_facility();
          break;
  case 3: System.out.println
          ("Balance " + s.display());
          break;
  case 4: System.out.print("Enter
          amount to be withdrawn");
          int amt = inp.nextInt();
          System.out.println
          ("Amount Left : "+c.withdraw
                              (amt));

          break;
  }
 System.out.print("Next choice: ");
 c = inp.nextInt();
 }
}
if(opt == 2){
current_acc c = new current_acc();
System.out.print("Cheque book facility \n
                  2. Balance \n
                  3. Withdraw Money \n
                  4. Exit \n");
int c = inp.nextInt();
```

```
while (c!=4) {
switch (c) {
case 1:
c.cheque_book_facility();
break;
case 2:
System.out.println("Balance: "
                    +c.display);
break;
Case 3:
System.out.print("Enter amt you
                    want to withdraw");
int a = inp.nextInt();
System.out.println("Amount
  Left : " + c.withdraw(a);
  break;
}
System.out.print("Next choice");
c = inp.nextInt();
}
}
}
}
```