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Subject - Java programming practical

Course - MCA 2B

```
AO-2 import java.io.*;
import java.lang.*;
class LessBalanceException extends Exception
{
    LessBalanceException(double amt)
    {
        System.out.println("withdrawing "+amt+" invalid");
    }
}

class account
{
    static int count=0;
    int accno;
    double bal;
    String bal;
    String name;
    account(double bal, String n, int accno)
    {
        System.out.println("\n new account opened -- ");
        this.bal = bal;
        count++;
        System.out.println("account holder name : "+n);
        name = n;
        System.out.println("your account number is : "+accno);
        this.accno = accno;
        System.out.println("total no. of accounts: "+count);
    }
    void deposit(double amt) throws LessBalanceException
    {
        System.out.println("\n available balance : "+bal);
        bal = amt;
        if (bal < 500)
        {
            bal += amt;
            throw new LessBalanceException(amt);
        }
        System.out.println("Rs : "+amt + "/- debited");
        System.out.println("customer name : "+name);
        System.out.println("account no. : "+accno);
    }
}
```



```

case 1:
System.out.println("Opening new account.");
System.out.print("Enter your name:");
name = br.readLine();
System.out.print("\nEnter acc. no.");
accno = Integer.parseInt(br.readLine());
System.out.print("\nEnter initial amount (to be >= 500):");
amt = Double.parseDouble(br.readLine());
if (amt < 500)
    System.out.println("You cannot create an account with less  
than 500 :- 1);
else
    ob[i] = new account(amt, name, accno);
    i++;
    break;

```

```

case 2
System.out.print("\nEnter account no.");
accno = Integer.parseInt(br.readLine());
for (k=0; k<i; k++)
    if (accno == ob[k].accno)
    {
        t = true;
        break;
    }
    if (t)
    {
        System.out.print("\nEnter the amount for deposit:");
        amt = Double.parseDouble(br.readLine());
        ob[k].deposit(amt);
    }
    else
        System.out.println("Invalid account no. :- 1);
        t = false;
        break;

```



```
1  import java.io.*;
2  import java.lang.*;
3  class LessBalanceException extends Exception
4  {
5      LessBalanceException(double amt)
6      {
7          System.out.println("Withdrawing "+amt+" is invlaid");
8      }
9  }
10 class Account
11 {
12     static int count=0;
13     int accno;
14     double bal;
15     String name;
16     Account(double bal,String n,int accno)
17     {
18         System.out.println("\nNew Account opened....!!");
19         this.bal=bal;
20         count++;
21         System.out.println("Account Holder Name : " + n);
22         name=n;
23         System.out.println("Your Account Number is : "+accno);
24         this.accno=accno;
25         System.out.println("Total number of accounts : "+count);
26     }
```

```
void deposit(double amt)
{
    System.out.println("Availabe Balance : "+bal);
    bal=bal+amt;
    System.out.println("Rs. : "+amt+" /- Created");
    System.out.println("Balance : "+bal);
}

void withdraw(double amt) throws LessBalanceException
{
    System.out.println("\nAvailabe Balance : "+bal);
    bal-=amt;
    if(bal<500)
    {
        bal+=amt;
        throw new LessBalanceException(amt);
    }
    System.out.println("Rs. : "+amt+" /-Debited");
    System.out.println("Balacne : "+bal);
}

void balance()
{
    System.out.println("\nCustomer information");
    System.out.println("=====");
    System.out.println("Customer Name : "+name);
    System.out.println("Account Number : "+accno);
    System.out.println("Balance : "+bal);
}
```

```
class AccountDemo
{
    static int i=0;
    public static void main(String argv[]) throws IOException
    {
        Account ob[]=new Account[10];
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        double amt;
        String name;
        int ch, accno, k;
        boolean t=false;
        while(true)
        {
            System.out.println("\n*** Bank Transaction ***");
            System.out.println("1.Open new Account\n2.Deposit");
            System.out.println("3.Withdraw\n4.Balance\n5.Exit");
            System.out.print("Enter your choice : ");
            ch=Integer.parseInt(br.readLine());
            switch(ch)
            {
                case 1:
                    System.out.println("Opening New Account : ");
                    System.out.print("Enter your name : ");
                    name=br.readLine();
                    System.out.print("\nEnter Account Number : ");
                    accno=Integer.parseInt(br.readLine());
                    System.out.print("\nEnter initial amount(to be >=500) : ");
```

```
81     accno=Integer.parseInt(br.readLine());
82     System.out.print("\nEnter initial amount(to be >=500) : ");
83     amt=Double.parseDouble(br.readLine());
84     if(amt<500)
85         System.out.println("You cannot create an account with less than 500");
86     else
87     {
88         ob[i]=new Account(amt,name,accno);
89         i++;
90     }
91     break;
92
93     case 2:
94         System.out.print("\nEnter Account number : ");
95         accno=Integer.parseInt(br.readLine());
96         for(k=0;k<i;k++)
97             if(accno==ob[k].accno)
98             {
99                 t=true;
100                 break;
101             }
102
103         if(t)
104         {
105             System.out.print("\nEnter the Amount for Deposit : ");
106             amt=Double.parseDouble(br.readLine());
107             ob[k].deposit(amt);
108         }
109         else
```

```
107         ob[k].deposit(amt);
108     }
109     else
110         System.out.println("Invalid Account Number....!!!");
111     t=false;
112     break;
113
114     case 3:
115         System.out.print("\nEnter Account number : ");
116         accno=Integer.parseInt(br.readLine());
117         for(k=0;k<i;k++)
118             if(accno==ob[k].accno)
119             {
120                 t=true;
121                 break;
122             }
123
124         if(t)
125         {
126             System.out.print("\nEnter the Amount for Withdraw : ");
127             amt=Double.parseDouble(br.readLine());
128             try
129             {
130                 ob[k].withdraw(amt);
131             }
132             catch(LessBalanceException e)
133             {}
134         }
```



```
131     }
132     catch(LessBalanceException e)
133     {}
134 }
135 else
136     System.out.println("Invalid Account Number...!!!");
137 t=false;
138 break;
139
140 case 4:
141     System.out.print("\nEnter Account number : ");
142     accno=Integer.parseInt(br.readLine());
143     for(k=0;k<i;k++)
144         if(accno==ob[k].accno)
145         {
146             t=true;
147             break;
148         }
149
150     if(t)
151     {
152         //System.out.println(accno + " asdfsdf " +ob[k].accno);
153         ob[k].balance();
154     }
155     else
156         System.out.println("Invalid Account Number...!!!");
157 t=false;
158 break;
```



```
144         if (accno == ob[k].accno)
145         {
146             t=true;
147             break;
148         }
149
150         if(t)
151         {
152             //System.out.println(accno + " asdfsdf " + ob[k].accno);
153             ob[k].balance();
154         }
155         else
156             System.out.println("Invalid Account Number...!!!");
157         t=false;
158         break;
159
160     case 5:
161         System.exit( status: 1);
162     default: System.out.println("Invalid Choice !!!");
163     }
164 }
165 }
166 }
167
```

*** Bank Transaction ***

1.Open new Account

2.Deposit

3.Withdraw

4.Balance

5.Exit

Enter your choice : 1

Opening New Account :

Enter your name : himanshu

Enter Account Number : 123456789

Enter initial amount(to be ≥ 500) : 100

You cannot create an account with less than Rs.500/-