

Assignment Problem 4

PGDCA II Semester

PS02CDCA33: Object Technology

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Bank Transaction

1. Define a class of Account with structure as follows:

```
int accno;  
String acctype;  
String accholder;  
double balance;
```

2. Define at least one **constructor** having above **four parameters** of the Account class.

3. Also define methods as follows:

void print() → prints information about an account.

void deposit(double amt) → deposits amount given in the balance.

void withdraw(double amt) → withdraws amount form the balance.

4. In the main method, create 3 accounts using new operator as follows.

A1 → 456, "Saving", "XXX", 12000

A2 → 457, "Saving", "YYY", 5000

A3 → 458, "Current", "ZZZ", 15000

Initialize the content using constructor develop in the above class. Use the values given as above.

5. **Print all** account holder's information.

6. **Withdraw 2000 Rs.** from account A1 and print latest information of A1 account.

7. **Deposit 5000 Rs.** To account A2 and print latest information of A2 account.

Solution

```
package account;
```

```
public class Account {
```

```
    int accno;  
    String acctype;  
    String accholder;  
    double balance;
```

```
Account (int accno, String acctype, String accholder, double balance)
```

```
{ this.accno=accno;  
  this.acctype=acctype;  
  this.accholder= accholder;  
  this.balance= balance;  
}
```

```

static void printhead()
{ System.out.println("-----");
  System.out.println("Acc No\tAcc Type\tName\tBalance");
}

static void printfooter()
{ System.out.println("-----");
  System.out.println();
}

void print()
{ System.out.println("-----");
  System.out.println( accno+ "\t" + acctype + "\t\t" + accholder + "\t" + balance);
}

void deposit(double amt)
{ System.out.println("The current balance of account no " + accno + " is: " + balance);
  balance= balance + amt;
  System.out.println("The new balance of account no " + accno + " is: " + balance);
}

void withdraw (double amt)
{ System.out.println("The current of account no " + accno + " is: " + balance);
  if (amt<=balance)balance= balance - amt;
  else System.out.println("No sufficient balance..." );
  System.out.println("The new balance of account no " + accno + " is: " + balance);
}

public static void main(String[] args) {
  Account A1= new Account(456,"Saving", "XXX", 12000.00);
  Account A2= new Account(457,"Saving", "YYY", 5000.00);
  Account A3= new Account(458,"Current", "ZZZ", 15000.00);

  printhead();
  A1.print();
  A2.print();
  A3.print();
  printfooter();

  A1.withdraw(2000.00);
  printfooter();

  A2.deposit(5000.00);
  printfooter();
}// end of main method
}// end of class

```

Sample Output

Acc No	Acc Type	Name	Balance
456	Saving	XXX	12000.0
457	Saving	YYY	5000.0
458	Current	ZZZ	15000.0

The current of account no 456 is: 12000.0
The new balance of account no 456 is: 10000.0

The current balance of account no 457 is: 5000.0
The new balance of account no 457 is: 10000.0