

SB101- C1 Evaluation

Question 1:

Write a program that will result in a deadlock. How will you fix deadlock in Java show with examples? And Explain about wait() and notify() method.

Question 2:

Create the Address bean class with the following fields:

state:

city:

pincode:

Create the Employee bean class with the following fields:

empId:

empName

address: Address // Employee Has Address

email:

password:

Create a Main class with the main method and do the following task:

1. Create an object of the Employee class with all the details.
2. Serialize the Employee object inside a file called "emp.txt" in the current location.
Note:- make sure while serializing don't serialize the password field
3. Deserialize the Employee object from the "emp.txt" file and print all the details of the Employee.

Question 3:

Create an Account class with the following fields:

balance: int;

accountNo: int;

displayBalance():void;

deposit(int amount):void;

withdraw(int amount):void;

- displayBalance() method should simply print current balance
- deposit(int amount) method should add an amount to the balance and print the amount deposited and call displayBalance()
- withdraw(int amount) method should deduct amount from the balance print amount withdrawn and call displayBalance()

Create two thread class Deposit and Withdraw both classes will have following fields

amount: int;

account: Account;

Create a Main class with a main method. Inside your main method create an object for Account class and set appropriate values for instance variables. And Start your respective threads

Eg main():

```
public static void main(String[] args) {  
    Account ABC = new Account();  
    ABC.balance = 1000;  
    ABC.accountNo = 111;
```

```
Deposit deposit = new Deposit(ABC, 500);  
Withdraw withdraw = new Withdraw(ABC, 900);
```

```
Thread thread1 = new Thread(deposit);
```

```
Thread thread2 = new Thread(withdraw);
```

```
thread1.start();  
thread2.start();
```

```
}
```

Sample OutPut:

500 is deposited

Account No: 111 Balance: 1500

900 is withdrawn

Account No: 111 Balance: 600