

## LAB EXAM

## **OOPs with Java**

Time: 1.5 hours

- 1. Create a class named "Account" with the following members
  - a. Data Members
    - a. accNo
    - b. Name
    - c. accType
    - d. accBalance
  - b. Function members
    - a. Constructor to accept all values
    - b. Deposit(int amt) accepting amount and adds with the accBalance
    - c. Withdraw(int amt) accepting amount to subtract from the accBalance
    - d. checkBalalce() to return the present account balance

Inherit classes such as "SavingsAccount" "PrivilegedAccount" classes from the class "Account". The rules of these account types are as follows:-

- a. SavingAccount
  - a. Deposit can deposit upto a maximum of 50000 only in one transaction.
  - b. Withdraw a minimum balance of 1000 should be there at any time.
- b. PrivilegedAccount
  - a. Deposit can deposit any amount
  - b. Withdraw can take an overdraft of maximum 5000. le, account balance can go upto 5000.

Write a main() function, which creates different types of account and do transactions on these accounts.

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 Package Explorer 💢
                                  1 package com.exam.entity;
                     □ '≒ :
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 > 🛋 JRE System Library [JavaSE-1.8]
  ▼ 👺 > com.exam.entity
      4 Account.java
4 PrivilegedAccount.java
4 SavingsAccount.java
                                  50
                                                 super(accNo, name, accType, accBalance);
// TODO Auto-generated constructor stub
                               â
   ٧ !
     > 🛂 AppMain.java
                                          public void deposit(int amt) {
    System.out.println("YOu can deposit");
                               △12
                                                if(accBalance-amt>-5000) {
    System.out.println("YOu can withdraw");
                                 29 }
                                 30
 □ 🗇 🚺 Account.java 🚺 SavingsAccount.java
 kage Explorer 🗶
                                                              ☑ PrivilegedAccount.java
☑ AppMain.java ×
                  □ ≒ :
                              1 package com.exam.main;
                              3 import com.exam.entity.PrivilegedAccount;
import com.exam.entity.SavingsAccount;
SavingsAccount s1 = new SavingsAccount(11, "Akash", "Savings", 1150.00);
System.out.println("Savings Account");
```

🦹 Problems @ Javadoc 🚇 Declaration 💂 Console 🗶 <terminated> AppMain [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (Dec 9, 2022, 12:36:18 PM – 12:36:18 PM) [pid: 22448] Savings Account You can only deposit maximum 50,000 in one transcation Your current Balance Amount is 1150.0 you can't withdraw your balance is below 1000 you can't withdraw your balance is below 1000 Your current Balance Amount is 1150.0 Privileged Account Your current Balance Amount is 0.0 YOu can withdraw Updated balance after the withdraw is -4999.0 Your current Balance Amount is -4999.0 YOu can deposit Updated balance after deposit is 195001.0 Your current Balance Amount is 195001.0