

**Institute of Engineering and Technology**  
**Ahmedabad University**  
**Semester – II**  
**Section – A & B**  
**Lab Assignment – Session 7**

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**Assignment Date: Thursday, March 19, 2015**

**Submission Date: Tuesday, March 24, 2015**

**Q1.** Create an abstract class called “Account” and inherit it into two classes called “Savings” and “Current” in **Java**. Create appropriate data members with suitable visibility modes for each of the classes. Also create appropriate constructors and member functions for these classes such that they are able to implement the following business rules:

- An account created should either be a savings account or a current account.
- A savings account can only be opened with a minimum balance of ₹1,000/-
- Savings accounts need to maintain a minimum balance of ₹500/- at any point of time.
- Interest is calculated and credited in savings accounts only once in each quarter.
- The current accounts can have different overdraft limits ranging from ₹500/- to ₹1 Cr.
- No current account would be allowed to have a negative balance beyond the overdraft limit

Implement the above mentioned classes through a menu driven program that would allow the user to select the type of account at the time of account creation as well as making any type of transaction. Use run-time polymorphism to implement the classes.

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