

# Module 3: Object Oriented Programming in Java

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## Assignment



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### Problem Statement with Hints

1. Write classes to hold Account, SB-Account and Current-Account details. [Here implement the concept of inheritance.]

The common properties of the account are Account number, name and amount.

Specifics of SB account is 4% interest to be paid per month.

- ⇒ Implement the run-time polymorphism by creating base class variable and derived class object.
- ⇒ Ask the user for which type of account to be created then create the corresponding account (Note: Use scanner class).
- ⇒ Implement function overriding by having deposit and withdraw functions and perform the required action accordingly.

Ensure base class can't be instantiated. (Note: Abstract keyword can be used).

2. Define the minimum balance for the both the type of accounts. Use final keyword to create constants.

Ensure sb account class and current account class will cannot be used as base classes (Note: You can use final classes).