

Task Requirements (Inheritance + Polymorphism)

Class Structure

- Create base class: BankAccount (from Phase 1)
- Create derived class: SavingAccount : BankAccount
- Create derived class: CurrentAccount : BankAccount

Additional Fields

- SavingAccount → InterestRate (decimal)
- CurrentAccount → OverdraftLimit (decimal)

Polymorphism

- In BankAccount:
`public virtual decimal CalculateInterest() => 0;`
- In SavingAccount:
`public override decimal CalculateInterest()`
 ➤ Returns: $\text{Balance} * \text{InterestRate} / 100$
- In CurrentAccount:
`public override decimal CalculateInterest()`
 ➤ Always returns: 0

Method: ShowAccountDetails()

- Inherited from base class
- Can be overridden to include extra fields
(InterestRate or OverdraftLimit)

In Main():

- Create object of SavingAccount
- Create object of CurrentAccount
- Add both to List<BankAccount>
- Loop and call:
 - ShowAccountDetails()
 - CalculateInterest()