Now we want to reuse our Account class. The scenario is every student object has an account.

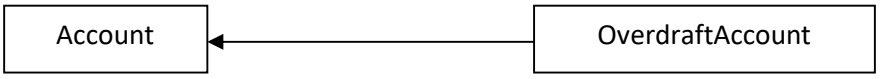
Tasks that you have to do:

1. If a student deposit a book after certain duration then for each day 10 taka will be charged by the library authority.
2. Student can pay that amount (charged amount) from his/her bank account to the library account. So the library also has an account.
3. Show the total amount a student paid to the library.
4. Show the total amount library gets from the students (total charged amount).
5. But if any student has any valid reason for delay then the librarian can excuse the charged amount. Librarian can excuse full or partially (%).

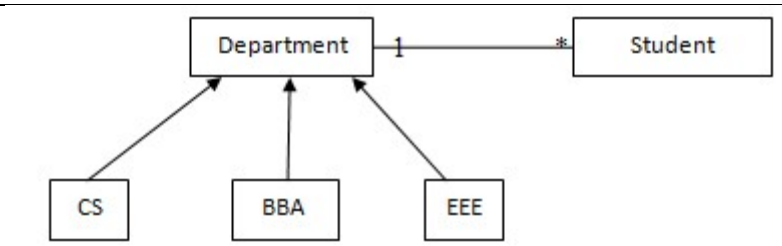
In this program we want to reuse our last developed Library and Student Class. Our objective is to develop the scenario, where student can take maximum 5 books (for 5 days each) at a time from the library, and return these books.

Tasks that you have to do:

1. Show all the borrowed book information of a student from student class
2. Show all the student name and book information from library class, which are currently borrowed by students.
3. Step 2
4. Preserve borrowed history of student object, which he/she takes in his/her lifetime.
5. Preserve borrowed history of book objects that are taken by students.

Inheritance		
Reuse Account class, and OverdraftAccount class inherits Account class. OverdraftAccount as member	 **OverdraftAccount** Member Variable: int overdraftLimit Member Function: boolean Withdraw(int amount) //override this method	

- Implement the above inheritance scenario.
- Test base and derived class's constructor calling.
- Test the visibility of access modifiers (public, private, protected)

	 **Department** Member variable: • String deptName; • int creditFee

	MemberFunction:
	
	• 2/3 constructor
	• Abstract method void calculateSemesterFee(int credit)
	
	<u>CS, BBA, EEE</u>
	
	Member Variable:
	
	Member Function: overwrite calculateSemesterFee(int credit) in each class
	
	<u>Student:</u>
	
	Member Variable:
	
	• string stuName
	• Department dept;
	
	MemberFunction:
	
	• 2 constructor
	• void ShowStudentInfo()
	• void ChangeDepartment(Department dept)
	• void SemesterFee(int totalCredit){
	dept. CalculateSemesterFee(totalCredit);
	}