

Assignment 7

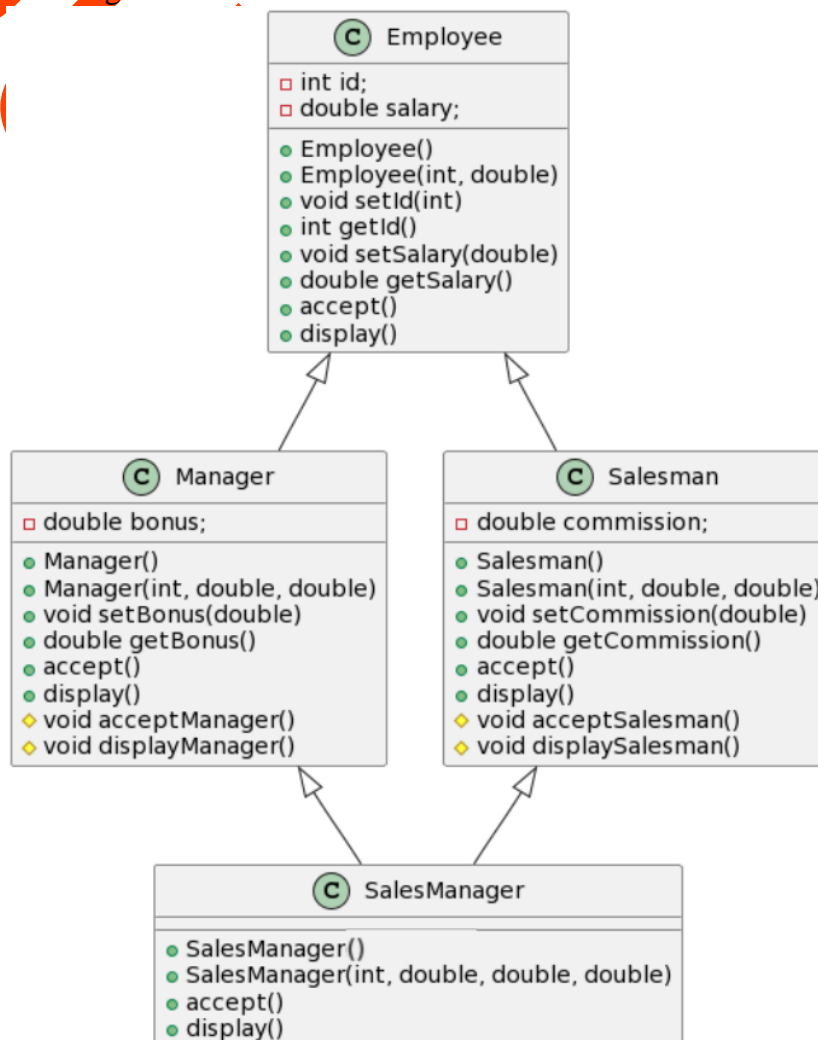
Q1. A shop sells book or tapes. The Book class holds id, title, author, and price; whereas Tape class holds id, title, artist, and price. There is 5% discount on tapes, while 10% discount on books.

Assuming that each user purchase 3 products (either book or tape), calculate final bill. The program should be menu driven and should not cause memory leakage.

Hint - Create class Product and inherit into Book and Tape. Also create array like `Product* arr[3]`

Q2. Provide menu driven code for the functionalities:

1. Accept Employee
 - a. Accept Manager
 - b. Accept Salesman
 - c. Accept SalesManager
2. Display the count of all employees with respect to designation
3. Display All Managers
4. Display All Salesman
5. Display All SalesManagers



Q3. Write a class to store Account information of Bank customer by using following class diagram.
 Use enum to store information of account type.
 Create an array of 5 Accounts in main() and accept their details from user.
 Write Menu driven program to deposit/withdraw amount from the account.
 After each transaction display updated account balance.
 Throw exceptions for invalid values.
 Also implement an exception class InsufficientFundsException.
 In withdraw if sufficient balance is not available in account or while deposit the entered amount is negative then throw this exception.

