

## Assignment 4

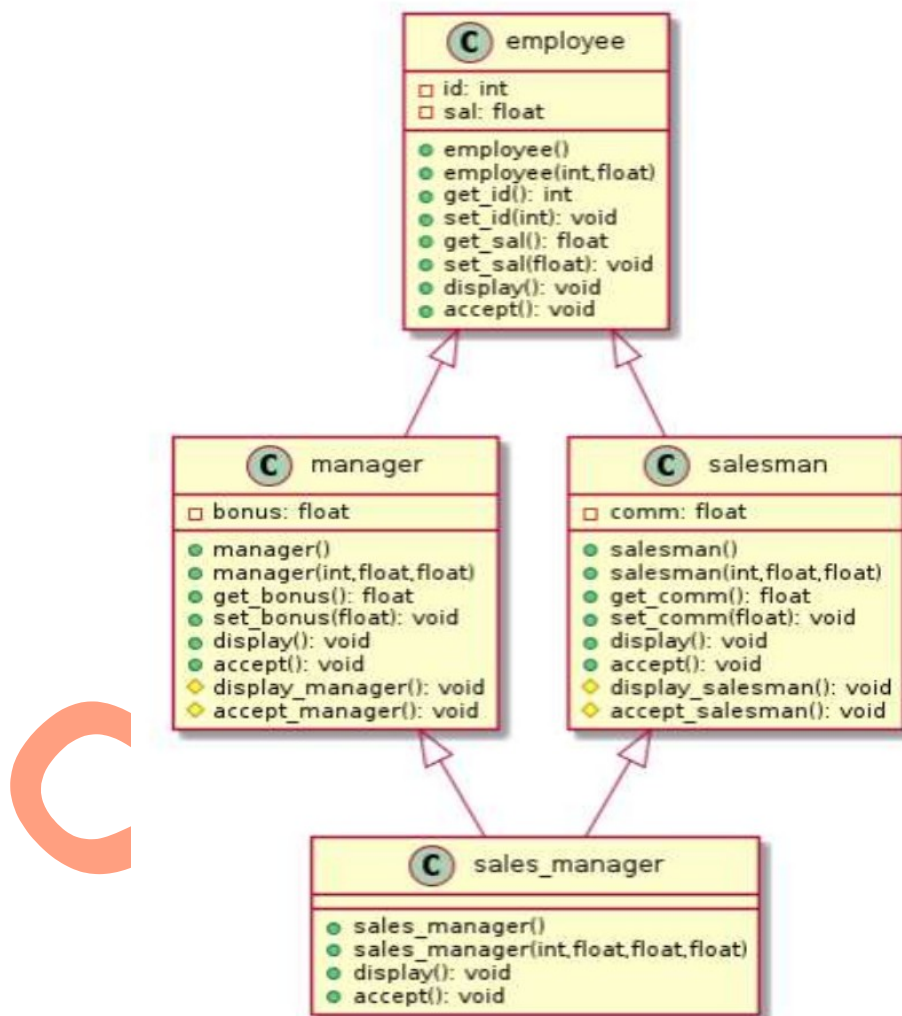
Q1. Write a menu driven program for Student management. In main(), create Array of Objects and provide facility for accept, print, search and sort.

For student accept name, gender, rollNumber and marks of three subjects from user and print name, rollNumber, gender and percentage.

Provide global functions void sortRecords(Student[] arr) and int searchRecords(Student[] arr) for sorting and searching array.

Search function returns index of found Student, otherwise returns -1.

Q2. Implement following classes. Test all functionalities in main() of each created class. Note that employee is inherited into manager and salesman.



Q3. 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.