



**King Saud University**  
**College of Computer and Information Systems**  
**Department of Computer Science**  
**CSC 113: Java Programming-II, Fall 2017**



**HomeWork**

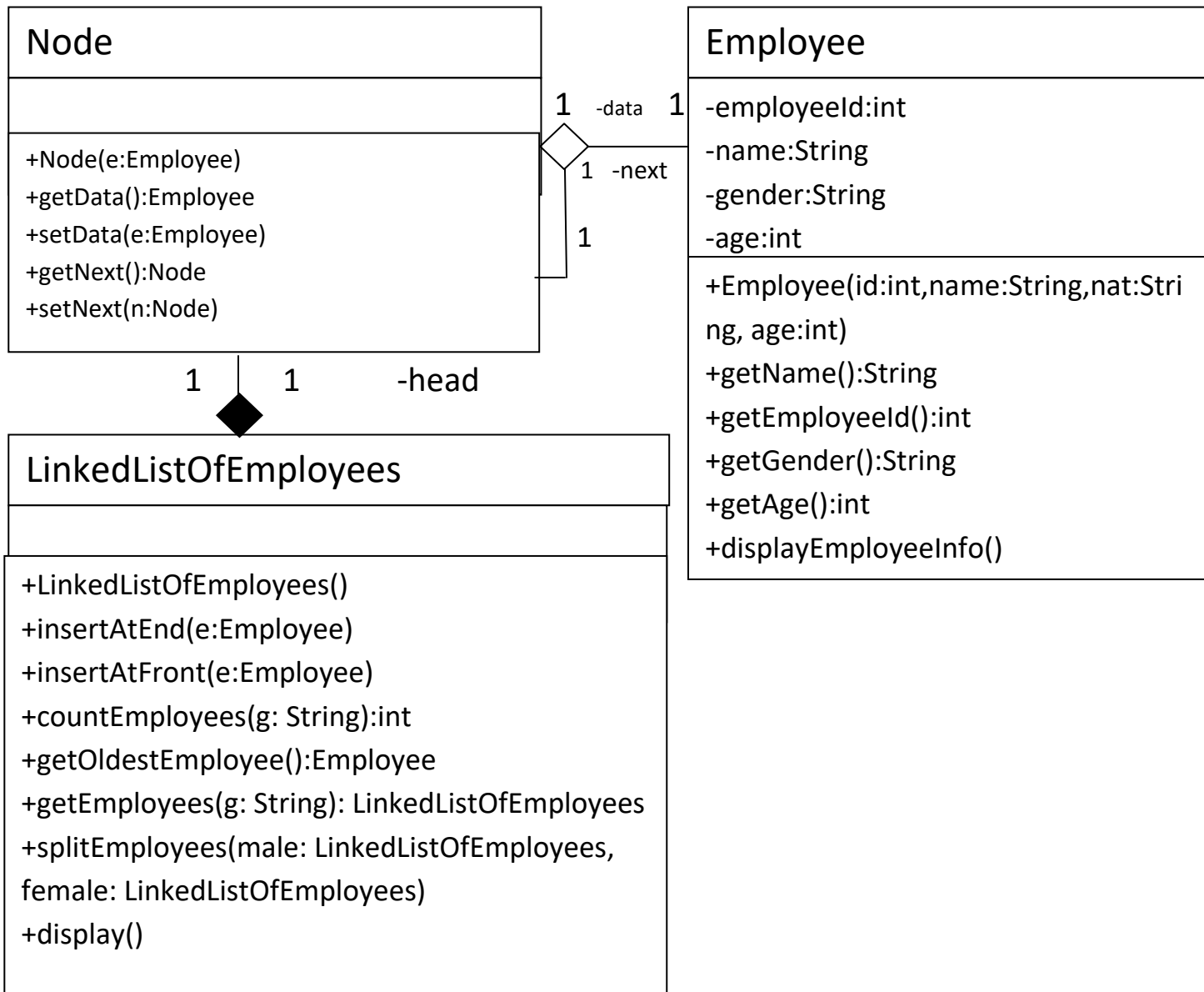
Question :

Add following methods in `LinkedListOfEmployees` Class. Write the code of these methods on a paper and submit. I only need the hand written code of these methods. Remember to write your name and id at the top of the paper.

- ***saveEmployeesInFile(String fileName)***: This method saves all employees of the linked list in file *fileName*.
- ***splitEmployeesInFiles(String maleFileName, String femaleFileName)***: This method saves all male employees of the linked list in file *maleFileName* and female Employees in *femaleFileName*.
- ***readAndInsertEmployees(String filename, LinkedListOfEmployees list)***: This method reads all employees from the file *fileName* and inserts at the end of the linked list *list*.



**HomeWork**





**King Saud University**  
**College of Computer and Information Systems**  
**Department of Computer Science**  
**CSC 113: Java Programming-II, Fall 2017**



**HomeWork**

***Employee Class:***

○ Attributes:

- `employeeId`: unique id of the employee.
- ***name***: the name of the employee.
- ***gender***: The gender of the employee.
- ***Age***: The age of the employee

○ Methods:

- ***Employee(id:int,name: string, gender: String, age: int)***: constructor
- ***displayEmployeeinfo()***: this method displays all the attributes of the employee.
- ***Getters***

***Node Class:***

○ Attributes:

○ Methods:

- ***Node(e: Employee)***: constructor
- ***Getters/Setters***

***LinkedListOfEmployees Class:***

○ Attributes:

○ Methods:

- ***LinkedListOfEmployees***: constructor
- ***insertAtFront(g:Employee)***: this method inserts an employee at the front of linked list.
- ***insertAtEnd(g:Employee)***: this method inserts an employee at the end of linked list.
- ***countEmployee(g:String)***: this method returns the number of employees who are of gender *g*.
- ***getOldestEmployee()***: this method returns the oldest employee.
- ***getEmployees(g:String)***: this method returns a linked list of all employees who are of gender *g*.
- ***splitEmployees(male: LinkedListOfEmployees, female: LinkedListOfEmployees)***: This method inserts all Male employees linked list *male* and Female in to female linked list.
- ***display()***: displays the data of each employee in the linked list



**King Saud University**  
**College of Computer and Information Systems**  
**Department of Computer Science**  
**CSC 113: Java Programming-II, Fall 2017**



**HomeWork**

Write a java program that will display following Menu to execute different member functions of these classes.

To add a new employee, Enter 1

To get the number of employees of a given gender, Enter 2

To get and display the oldest employee, Enter 3

To get and display all employees of a given gender, enter 4

To view all Male employees in the Linked List, Enter 5

To Exit, Enter 0

Enter Your Option: \_\_\_\_\_