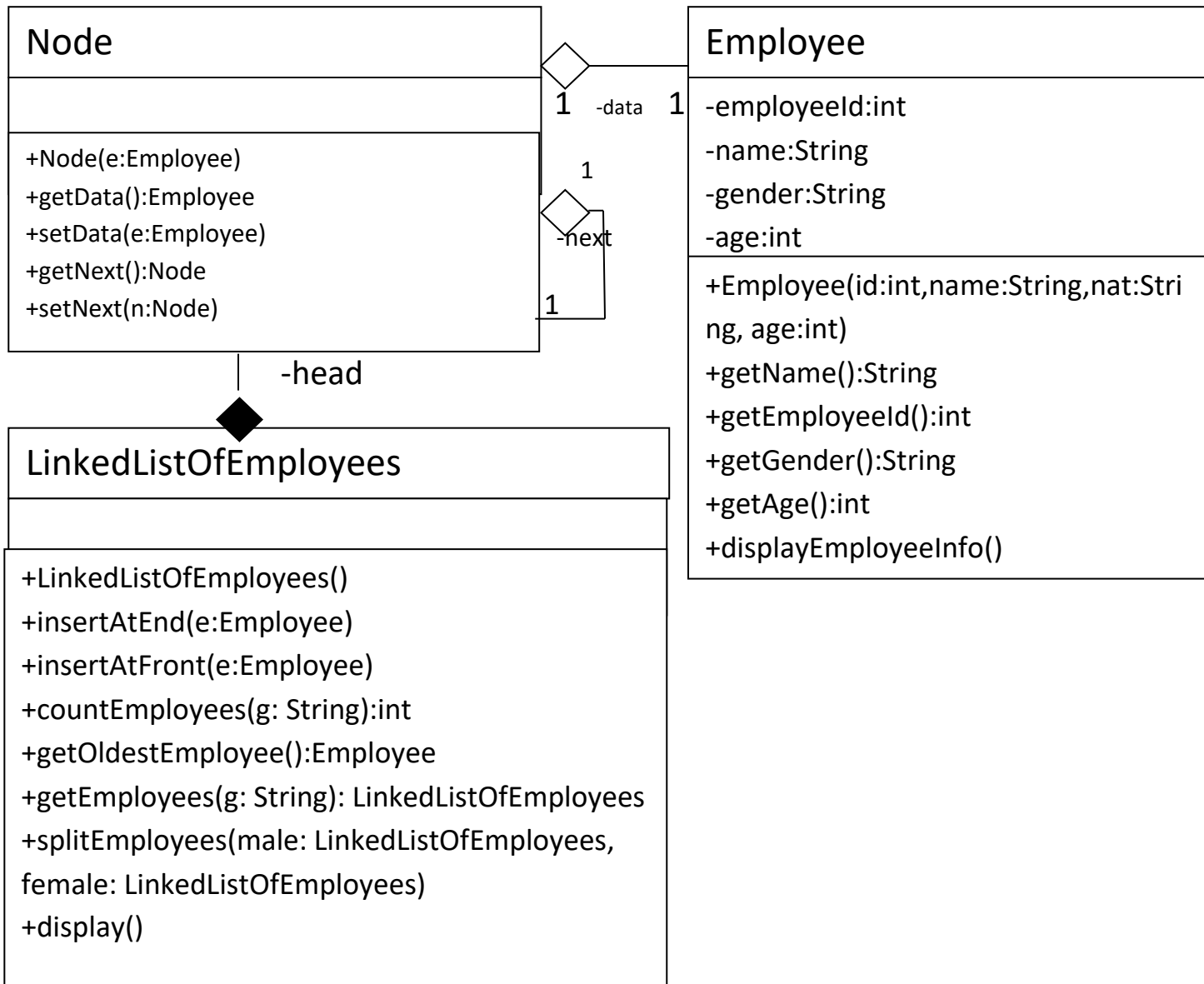Create the classes along with the functionality given in the following UML Diagram. To understand the problem, please refer to the description given after the diagram.

Node
+Node(e:Employee) +getData():Employee +setData(e:Employee) +getNext():Node +setNext(n:Node)

1   -data   1

1

-next

1

Employee
-employeeId:int -name:String -gender:String -age:int
+Employee(id:int,name:String,nat:String, age:int) +getName():String +getEmployeeId():int +getGender():String +getAge():int +displayEmployeeInfo()

-head

LinkedListOfEmployees
+LinkedListOfEmployees() +insertAtEnd(e:Employee) +insertAtFront(e:Employee) +countEmployees(g: String):int +getOldestEmployee():Employee +getEmployees(g: String): LinkedListOfEmployees +splitEmployees(male: LinkedListOfEmployees, female: LinkedListOfEmployees) +display()

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

Node Class:
o Attributes:
o Methods:
  ▪ *Node(e: Employee)*: constructor
  ▪ *Getters/Setters*

LinkedListOfEmployees Class:
o Attributes:

o 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

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:____