**Unit 9.HW6. OPTIONAL HW (Extra Credit of .25% of the fina letter grade!)**

Create the class ***Employee*** with ***int id****,* ***String name****,* ***double salary*** and ***int numberOfDependents*** as private attributes. Add the Setters and Getters for each of those attributes, and override the ***toString*** method to print an employee in the format [id,name,net salary], where:

Net salary = salary\*0.91 + (numberOfDependent \*0.01\*salary)

Add the constructor ***public Employee (String name, double salary, int numberOfDependent)*** to set this.name, this.salaray and this.numberOfDependent using the passed parameters, and set the id to be the sum of the ascii codes of each of the letters (lower case letters. So the id for ***Hatim Boustique*** is the sum of the ascii codes of the letters ***hatim boustique***, including the white spaces ) of the employee’s name.

The goal of this HW is to create a ***special*** ***linked list*** that you may call ***company*** to store the employees. We seek to implement a structure that can be pictured as:

***company***

***Ed Renu***

***Reda Ali***

***Rim Oz***

***Kim Oz***

***Aidan Jones***

***Aidan Jones***

***Naadi Jones***

Let ***emp1*** and ***emp2*** and ***emp3*** be three different ***Employee*** objects to add to the list in this order, and assume that ***Aidan Jones***, ***Nadia Jones*** and ***Naadi Jones*** are the names of those employees. In this ***collision*** case (we call it collision here because the ids of Aidan Jones, Nadia Jones and Naadi jones are the same), we first add Aidan to the list and Nadia and Naadi are to be added to a new linked list as seen in the picture above.

Consequently, each node of ***company*** should contain two references that you may call ***next*** and ***below*** to allow such configuration. You may have the ***next*** and ***below*** pointers public.

***class Node{***

***//Employee information: name, salary and id as private***

***Node next;***

***Node below;***

***}***

The dots in the picture above denote the ***null*** reference.

Your code should provide the user with a menu to run the following operations on ***company***:

1. Print all the employees (Just the names)
2. Add a new employee
3. Search an employee by name. Your code prints **Found/Not Found** to the screen
4. Find the highest net salary
5. delete an employee by name
6. Exit program