## 2021 – 2022 Spring, CMPE 114/211 Fundamentals of Programming II

## Lab Assignment 9

## Question 2

For this question, you will use *Sorting.java* in Question 1.

1. Define a class *Employee.java* which defines a class that represents an employee. An employee has a first name, last name, and a salary (an int).
2. Implement compareTo method in the Employee class. The comparison should be based on salary.
3. The file *SalaryComparer.java* contains a driver for testing and initializing emp. Add necessary code to *SalaryComparer.java* to sort *(use Sorting.java)* and print emp members.
   - The employees should be listed in order of salary (ascending order) ,
   - People having the same salary should be sorted in alphabetical order considering their last names.
   - You will print employees as
     last name, first name : salary
     (see the expected output, )

```
public class SalaryComparer {
	public static void main(String[] args) {
		Employee[] emp = new Employee[10];

		emp[0] = new Employee("Murphy", "Law", 3000);
		emp[1] = new Employee("Daniel", "Duck", 4935);
		emp[2] = new Employee("Jamie", "Walter", 3000);
		emp[3] = new Employee("Diana", "Jones", 2800);
		emp[4] = new Employee("Wis", "Trump", 1570);
		emp[5] = new Employee("Jane", "Black", 3000);
		emp[6] = new Employee("Kim", "Port", 7300);
		emp[7] = new Employee("Annie", "Churcil", 5000);
		emp[8] = new Employee("John", "Doe", 2850);
		emp[9] = new Employee("Oscar", "Smith", 3000);

		//add necessary code

		System.out.println("\nRanking of the employees by salary\n");

		//add necessary code

	}
}
```

**Expected Output:**

```
Ranking of the employees by salary

Trump, Wis:       1570
Jones, Diana:     2800
Doe, John:  2850
Black, Jane:      3000
Law, Murphy:      3000
Smith, Oscar:     3000
Walter, Jamie:    3000
Duck, Daniel:     4935
Churcil, Annie:   5000
Port, Kim:  7300
```