

**Programming and Logic I**  
**Project 3 - RunEmployee**  
**Due: May 2, 2021**

**Files to Submit:**

**<yourname>RunEmployee.java**  
**<yourname>Employee.java**

Currently, you have a RunEmployee class that reads employee data from a file, creates an Employee object, and writes formatted output to standard output. In this project, you will create an additional field in your Employee class along with an accessor and mutator for the field and a method to display the Employee data. In RunEmployee, you will create an array of Employee objects, and loop through the array to display the employee data.

**Employee class**

Add a data field to your employee class called `email`. This field should be a String.

**Methods**

- Create an **accessor** and **mutator** method for the new email field
- Add a `display()` method that **takes no parameters and does not return a value**. This method should display the contents of an Employee object. (Code that displays employee data is currently in RunEmployee within the while loop. Remove that code from RunEmployee and add it to this method. It will be very similar with perhaps a few tweaks. The output can look the same. Since the code for determining the employee's position is also within the loop, that will be moved to the display method as well.)

**RunEmployee class**

Create an array of type Employee. We need to give the array a size. Although we may not know the number of employees in the file, we are going to fudge it a little here and give the array a size of 12. There are 12 employees in the file. Normally, we might not know this.

This class currently opens a file for reading, reads the company name, and then iterates through the file reading each employee's data and writing employee data to standard output. The loop ends when there is no more data in the file. It currently creates the Employee object and calls a 5-argument constructor. After you create the Employee

object, add the employee's email address to the object by calling the email mutator (set) method you created in the Employee class.

After the Employee object has been created and updated with the email address, add the Employee object to the array. You will need an index to add the Employee object to the array. To do this, create an int variable that is set to 0 before the loop begins and incremented within the loop.

Remove all the output statements. The Employee object now has a display method that will be called after the loop completes.

After the loop completes, you will have an array of type Employee that will be filled with 12 Employee objects. Create a for loop that iterates 12 times. Inside this loop, use the array variable and loop control variable (as index to the Employee array) to call each Employee object's display method. The output can look the same, the difference is the Employee object is calling its own method to display its data.

Notes:

- You are creating ONE array. The type of the array is Employee.
- You are NOT creating an ArrayList
- The main method is still printing the name of the company.

**Sample Run:**

```
> run ConwayRunEmployee3
```

Hudson Valley Corporation

```
-----  
Employee:      Jerry Seinfeld  
Position:      Associate  
Salary:        $100,000.00  
Email Address: j-seinfeld@hv.com  
Bonus:         false  
-----
```

```
-----  
Employee:      Elaine Benes  
Position:      Associate  
Salary:        $100,000.00  
Email Address: e-benes@hv.com  
Bonus:         false  
-----
```

```
-----  
Employee:      George Costanza  
Position:      Assistant  
Salary:        $50,000.00  
Email Address: g-costanza@hv.com  
Bonus:         false  
-----
```

Employee: Cosmo Kramer  
Position: Assistant  
Salary: \$50,000.00  
Email Address: c-kramer@hv.com  
Bonus: true

---

Employee: Jacopo Peterman  
Position: Executive  
Salary: \$150,000.00  
Email Address: j-peterman@hv.com  
Bonus: true

---

Employee: David Putty  
Position: Assistant  
Salary: \$50,000.00  
Email Address: d-putty@hv.com  
Bonus: true

---

Employee: Justin Pitt  
Position: Executive  
Salary: \$200,000.00  
Email Address: j-pitt@hv.com  
Bonus: true

---

Employee: Russell Dalrymple  
Position: Executive  
Salary: \$150,000.00  
Email Address: r-dalrymple@hv.com  
Bonus: false

---

Employee: Tim Whatley  
Position: Intern  
Salary: \$25,000.00  
Email Address: t-whatley@hv.com  
Bonus: false

---

Employee: Joe Davola  
Position: Intern  
Salary: \$25,000.00  
Email Address: j-davola@hv.com  
Bonus: false

---

Employee: Kenny Bania  
Position: Assistant  
Salary: \$50,000.00  
Email Address: k-bania@hv.com  
Bonus: true

---

Employee: Susan Ross  
Position: Executive  
Salary: \$150,000.00  
Email Address: s-ross@hv.com  
Bonus: true

**Copyright Policy:**

The copy in this document has been provided for educational purposes in accord with copyright law. This material is protected by copyrights owned by the instructor. The user of this work is responsible for adhering to copyright law. This material cannot be re-published, uploaded, posted, transmitted or distributed in any way.