

CECS 277 Sec 09

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Lab 2

Employee Class code:

```
public class Employee {  
    //instance variable: name and salary  
    private String name;  
    private double salary;  
  
    /**default constructor; given no param  
     */  
    Employee(){  
        this.name = "Jack";  
        this.salary = 1000.00;  
    }  
  
    /** overridden constructor  
     * @param name = String name of the employee  
     * @param salary = the employee's salary  
     */  
    Employee(String name, double salary){  
        this.name = name;  
        this.salary = salary;  
    }  
  
    /**  
     * @Override toString method  
     * @return a string of the employee's name and salary  
     */  
    public String toString() {  
        return "Employee{" +  
            "name: " + name + '\n' +  
            "salary: " + salary +  
            '}';  
    }  
}
```

```

    /**
     * @return a string of the employee's name
     */
    public String getName(){
        return name;
    }

    /**
     * @return a string of the employee's salary
     */
    public double getSalary(){
        return salary;
    }
}

} //end class Employee

```

Manager Class code:

```

//create Manager class that extends from Employee class
public class Manager extends Employee{
    //instance variable
    public String department;

    //argument Manager constructor
    Manager(){
        super(); //call employee class
        department = "Finance";
    }

    //argument Manager constructor
    public Manager(String name, Double salary){
        super(name,salary); //call Employee(name, salary)
        department = "Finance";
    }

    /**
     * @Override toString method
     * @return a string of the manager's name, department, and salary
     */
    public String toString() {
        return "Manager{" +
            "name: " + super.getName() + '\n' +
            "department: " + department + '\n' +

```

```

        "salary: " + super.getSalary() +
        '}}';
    }
} //end Manager class

```

Executive Class code:

```

//create Executive class that extends from Manager class
public class Executive extends Manager{

    //argument Executive class
    public Executive(){
        super(); //call Manager
    }

    //argument Manager constructor
    public Executive(String name, Double salary){
        super(name,salary); //call Manager(name, salary)
        department = "Finance";
    }

    /**
     * @Override toString method
     * @return a string of the manager's name, department, and salary
     */
    public String toString() {
        return "Executive{" +
            "name: " + super.getName() + '\n' +
            "department: " + super.department + '\n' +
            "salary: " + super.getSalary() +
            '}}';
    }
} //end Executive class

```

Test Class code:

```

public class Test {
    public static void main(String[] args){
        Employee e1 = new Employee("bob", 100);
        Employee e2 = new Employee();
        Manager m1 = new Manager("karen", 10000.00);
        Executive e3 = new Executive("linda", 100000.00);

        System.out.println(e1.toString());
    }
}

```

```
        System.out.println(e2.toString());  
        System.out.println(m1.toString());  
        System.out.println(e3.toString());  
    }  
}
```

Runtime output:

```
e0ac53b7d46\redhat.java\jdt_ws\CECS277Lab2_1b9e9fd3\bin' 'Test'  
Employee{name: bob  
salary: 100.0}  
Employee{name: Jack  
salary: 1000.0}  
Manager{name: karen  
department: Finance  
salary: 10000.0}  
Executive{name: linda  
department: Finance  
salary: 100000.0}  
PS C:\Users\steve\Documents\CECS277Lab2> □
```