**Critical Thinking 1**

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public class Employee {

        private String firstName;

        private String lastName;

        private int employeeID;

        private double salary;

        public Employee() {

            this.salary = 0.0; //Initializes salary to 0

        }

        public void setFirstName(String firstName) {

            this.firstName = firstName; //Sets First Name

        }

        public String getFirstName() {

            return this.firstName;

        }

        public void setLastName(String lastName) {

            this.lastName = lastName; //Sets Last Name

        }

        public String getLastName() {

            return this.lastName;

        }

        public void setEmployeeID(int employeeID) {

            this.employeeID = employeeID; //Sets Employee's id

        }

        public int getEmployeeID() {

            return this.employeeID;

        }

        public void employeeSummary() {

            System.out.println("First Name: " + this.firstName);

            System.out.println("Last Name: " + this.lastName);

            System.out.println("Employee ID: " + this.employeeID);

            System.out.println("Salary: " + this.salary);

        }//Prints the list of set and initialized elements

    }

public class Manager extends Employee {

    private String department;

    public void setDepartment(String department) {

        this.department = department;

    }

    public String getDepartment() {

        return this.department;

    }

    @Override //Allows for same name use to ensure ease of understanding

    public void employeeSummary() {

        super.employeeSummary();

        System.out.println("Department: " + this.department); //Returns all attributes of Employee and Manager classes

    }

}

public class Test {

public static void main(String[] args) {

    Manager manager = new Manager();

    manager.setFirstName("John");

    manager.setLastName("Doe");

    manager.setEmployeeID(123);

    manager.setDepartment("Sales");

    manager.employeeSummary();

}

}//Testing class for Employee and Manager classes

