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## Assignment - 4.

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### Java Programming

1. Write a java program to demonstrate Encapsulation and inheritance for various levels of management in a company.

```
class Employee {  
    private String name;  
    private String id;  
    public Employee (String name, String id) {  
        this.name = name;  
        this.id = id;  
    }  
    public String getName() {  
        return name;  
    }  
    public String getId() {  
        return id;  
    }  
    public void displayInfo() {  
        System.out.println("ID: " + id);  
    }  
}
```

```
class Manager extends Employee {  
    private String department;  
    public Manager (String name, String id, String department);  
    public Manager (String name, String id, String department) {  
        super (name, id);  
        this.department = department;  
    }  
    public String getDepartment() {  
        return department;  
    }  
}
```



```

public void displayInfo() {
    super.displayInfo();
    System.out.println("Department: " + department);
}

```

```

public class Director extends Manager {
    private String role;

    public Director(String name, String id, String department, String role) {
        super(name, id, department);
        this.role = role;
    }

```

```

    public String getRole() {
        return role;
    }

```

```

    public void displayInfo() {
        super.displayInfo();
        System.out.println("Role: " + role);
    }
}

```

```

public class CompanyManagement {
    public static void main(String[] args) {

```

```

        Employee employee = new Employee("John Doe", "123");
        Manager manager = new

```

```

        Manager("Jane Smith", "456", "Sales");
        Director director = new

```

```

        Director("Alice Johnson", "789", "Finance", "Finance Director");

```

```

        Employee empManager = manager;

```

```

        Employee empDirector = director;
    }
}

```



employee.displayInfo();

System.out.println("");

emp.manager.displayInfo();

System.out.println("----");

Emp Director.displayInfo();