1. Write a Java Program to Demonstrate Encapsulation and Inheritance For various levels of Management in a company.

```java
class Employee {
   Private String name;
   Private String id;

   Public Employee (String name, String id) {
    this.name = name:
    this.id = id;
    }
   Public String get name () {
     return name;
   }

    Public String getId () {
      return id;
    }

    Public void displayInfo () {
      System.out. Println ("Name:"+ name);
      System.out. Println (" ID: " + id);
      }
   }

     class manager extends Employee {
        Private String department) {
        super (name, id);
        this. department = department;
        }

        Public String get Department () {
          return department;
        }

        Public void display Info () {
          Super. displayInfo ();
          System.out. Print In (" Department: " + department);
        }
      }
```

```java
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 get Role () {
        return role;
    }

    Public void display Info () {
        super.display Info ();
        System.out.println(" Role!" + role);
    }
}

Public class company Management {
    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 emp Manager = manager;
        Employee emp Director = director;
        employee. displayInfo ();
        System.out. println ("......");
        emp Manager. displayInfo ();
        System.out. println ("......");
        emp Director. displayInfo ();
    }
}
```