

1. Write a program to create two packages `employeepackage` and `departmentpackage` and under `employeepackage` create classes like `Employee`, `Manager`, `Admin`. Under `departmentpackage` create class by name `Department` and `Project`.

#### EMPLOYEE CLASS:

```
package employeepackage;

public class Employee {

    public int empid;

    private String empname;

    public int empage;

    Employee(int empid, String empname, int empage)

    {

        this.empid=empid;

        this.empname=empname;

        this.empage=empage;

    }

    void display()

    {

        System.out.println("employee id: "+empid);

        System.out.println("employee name: "+empname);

        System.out.println("employee age: "+empage);

    }

}
```

## MANAGER CLASS:

```
package employeepackage; public

class Manager { public int

managerid; private String

managername;public int

managerage; public float

managersalary;

Manager(int managerid,String managername,int

managerage,float managersalary)

{

this.managerid=managerid;

this.managername=managername;

this.managerage=managerage;

this.managersalary=managersalary;

}

void displayManager()

{

System.out.println("manager id: "+managerid);

System.out.println("manager name: "+managername);

System.out.println("manager age: "+managerage);

System.out.println("manager salary: "+managersalary);

}

}
```

## DEPARTMENT CLASS:

```
package departmentpackage;

public class Department {

    public int deptid;

    private String deptname;

    public int deptcount;

    Department(int deptid,String deptname,int deptcount)

    {

        this.deptid=deptid;

        this.deptname=deptname;

        this.deptcount=deptcount;

    }

    void displayDepartment()

    {

        System.out.println("department id: "+deptid);

        System.out.println("department name: "+deptname);

        System.out.println("department count: "+deptcount);

    }

}
```

2. Create a Main class to test the above classes.

**ADMIN CLASS:**

```
package employeepackage;

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

        System.out.println("Displaying employee details");

        Employee employeedetails=new
        Employee(2345,"keerthana",22);

        employeedetails.display();

        System.out.println("Displaying manager details");

        Manager managerdetails=new
        Manager(7777,"pavithra",34,20000f);

        managerdetails.displayManager();

    }

}
```

## PROJECT CLASS:

```
package departmentpackage;

public class Project {

    private String projecttype;

    public int projectcount;

    Project(String projecttype,int projectcount)

    {

        this.projecttype=projecttype;

        this.projectcount=projectcount;

    }

    void displayProject()

    {

        System.out.println("project type: "+projecttype);

        System.out.println("project count: "+projectcount);

    }

    public static void main(String[] args) {

        System.out.println("displaying department details");

        Department department=new Department(984,"IT",300);

        department.displayDepartment();

        System.out.println("displaying project details");

        Project project=new Project("application",2);

        project.displayProject();

    }

}
```

3. Write a program to check how many Shape objects created.

```
public class ShapeObject {  
  
    private static int count;  
  
    //constructor of the class  
  
    public ShapeObject()  
  
    {  
  
        // increase the count variable by 1  
  
        count++;  
  
    }  
  
    public static void main(String[] args) {  
  
        ShapeObject square = new ShapeObject();  
  
        ShapeObject rectangle = new ShapeObject();  
  
        ShapeObject triangle = new  
ShapeObject(); ShapeObject circle = new  
ShapeObject();  
  
        System.out.print("Number of Objects created: "  
+ShapeObject.count);  
  
    }  
  
}
```