

1. Write a program to create a 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 employeeepackage;

public class Admin {

public static void main(String[] args)
{
System.out.println("Displaying employee details");
Employee employeedetails=new
Employee(6543,"sowmiya",21);
employeedetails.display();

System.out.println("Displaying manager details");
managerdetails=new
Manager(8675,"suji",45,60000f);
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(345,"IT",600);
    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;
    public ShapeObject()

```

```
{  
    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);  
}  
}
```