

ASSIGNMENT -7

1. Write a program to create a two packages and department package and under employee package create classes like Employee, Manager, Admin Under department package create class byname 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 above classes.

ADMIN CLASS:

```
package employeepackage;  
public class Admin  
{  
    public static void main(String[] args)  
    {  
        System.out.println("Displaying employee details");  
        Employee employeeedetails=new
```

```
        Employee(2345,"keerthana",22);
        employeeedetails.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 are 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);
    }
}

```

}