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**ASSIGNMENT - 7**

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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:**

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```
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:**

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```
package employeepackage; public

class Admin { public static

void main(String[] args) {

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

Employee employeedetails=new Employee(1234,"vipul",23);

employeedetails.display();

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

Manager managerdetails=new

Manager(4567,"pavithra",35,30000);

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()

{
```

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```
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(170,"IT",200);

department.displayDepartment();

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

Project project=new Project("application",1);

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();
```

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```
ShapeObject circle = new ShapeObject();
```

```
System.out.print("Number of Objects created: " +  
ShapeObject.count);
```

```
}
```

```
}
```