

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`.

Create a Main class to test the above classes.

```
package employeePackage;

public class Employee
{
    int eId;
    String Name;
    int age;
    float salary;
    public Employee()
    {
        eId=2034;
        Name="vijay";
        age=18;
        salary=2500.50f;
    }
}
```

```
}  
  
public void display() {  
    System.out.println("Employee id : "+ eId + " Name:  
    " + Name +"age: " +age +" salary: "+salary );  
}  
  
}
```

```
package employeePackage;  
  
public class Manager {  
    int mId;  
    String mName;  
    String pswd;  
    public Manager()  
    {  
        mId=98765;  
        mName="vicky";  
        pswd="2605";  
    }  
    public void diplayManger()  
    {
```

```
System.out.println("Manager id: "+mId+"Manager  
Name: "+mName+ "password:"+pswd);  
  
}  
  
}  
  
package employeePackage;  
  
public class Admin {  
    int adminId;  
    String pswd;  
    public Admin()  
    {  
        adminId=54321;  
        pswd="santhanam@123";  
    }  
    public void diplayAdmin() {  
        System.out.println("AdminID: "+adminId+ " password  
: " +pswd);  
    }  
}
```

```
package departmentpackage;
```

```
public class Department {  
    String depName;  
    String depHead;  
    Department(){  
        depName="Computer science";  
        depHead="Ragul";  
    }  
    public void displayDepartment()  
    {  
        System.out.println("Department Name :" +depName +"  
        Department Head" +depHead);  
    }  
}
```

Main class:

```
package departmentpackage;  
import employeePackage.Employee;  
import employeePackage.Admin;  
import employeePackage.Manager;  
public class Project {
```

```
public static void main(String[] a)
{
Employee employee = new Employee();
employee.display();
Admin admin=new Admin();
admin.diplayAdmin();
Manager manager=new Manager();
manager.diplayManger();
Department department =new Department();
department.displayDepartment();
}
}
```

Output:

```
Employee id : 2034 Name: vijayage: 18 salary:
2500.5

AdminID: 54321 password : santhanam@123

Manager id: 98765Manager Name: Vicky password:2605
```

Department Name :Computer science Department
HeadRagu1

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

```
package activity;

public class ShapeObject {
    private static int count;

    public ShapeObject()
    {
        count++;
    }

    public static void main(String[] a)
    {
        ShapeObject squire = new ShapeObject();
        ShapeObject rectangle = new ShapeObject();
        ShapeObject triangle = new ShapeObject();
        ShapeObject circle = new ShapeObject();
    }
}
```

```
System.out.println("Object count : "+count);  
}  
}
```

Output:

```
Object count : 4
```