

- 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.

```
package employeepack;

public class Employee {

    public void display() {

        System.out.println("this is employee class");

        System.out.println("this is employee id "+501);

        System.out.println("this is employee name "+("satish"));

        System.out.println("this is employee salary "+ 30000);

    }

}

package employeepack;

public class Manager {

    private int managerId=123;

    public int getdisplay() {

        return managerId;

    }

    public void setdisplay(int id) {

        managerId=id;

    }

    public void display1(){

        System.out.println("this is manager class");

        System.out.println("this is old managerid "+managerId);

    }

}
```

```
}

package employeepack;

public class Admin {

    public void display2() {

        System.out.println("this is admin class");

        System.out.println("this is admin id "+1001);

        System.out.println("this is admin name "+("manisha"));

    }

}

package deptpack;

public class Department {

    public void display3() {

        System.out.println("this is department class");

        System.out.println("this is department id :"+121);

        System.out.println("this is department name :"+("HR"));

    }

}

package deptpack;

public class Project {

    public void display4() {

        System.out.println("this is project class");

        System.out.println("this is project title: "+("climate predction application"));

        System.out.println("this is project member: " +4);

    }

}
```

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

```
package mainpack;

import employeepack.*;

import deptpack.Department;

import deptpack.Project;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        Scanner sc=new Scanner(System.in);

        Admin admin=new Admin();

        admin.display2();

        Employee employee=new Employee();

        employee.display();

        Manager manager=new Manager();

        System.out.println("enter the managerid");

        manager.setdisplay(sc.nextInt());

        System.out.println("this is new managerid "+manager.getdisplay());

        Manager manager1=new Manager();

        manager1.display1();

        Department department=new Department();

        department.display3();

        Project project=new Project();
```

```
project.display4();
```

```
}
```

```
}
```

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

```
package shapepack;

import mainpack.Main;

public class ShapeObject {

    static int count=0;

    ShapeObject()

    {

        count++;

    }

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        ShapeObject shapeObject=new ShapeObject();

        ShapeObject shapeObject1=new ShapeObject();

        ShapeObject shapeObject2=new ShapeObject();

        ShapeObject shapeObject3=new ShapeObject();

        ShapeObject shapeObject4=new ShapeObject();

        System.out.println("numbers of objects created:"+count);

    }

}
```

