

Question 1:

Write a program to create a two packages employeepackage and departmentpackage .
Under employeepackage create class Employee,Manager,Admin,
Under departmentpackage create class Departement,Project,
Create main class to test above.

```
package employeepackage;//created a package employeepackage
```

```
//class employee is a default class and its visibility is set within the employee package
```

```
class Employee {  
    String empName = "Arshad";  
    String empId = "E230113J";  
    String Designation = " Java FullStack Developer";  
    String empName1 = "Shivam";  
    String empId1 = "E220803A";  
    String Designation1 = " Data Analyst";  
  
    void displayEmployee() {  
  
        System.out.println("Employee in ou Organization:");  
        System.out.println();  
        System.out.println(empName);  
        System.out.println(empId);  
        System.out.println(Designation);  
        System.out.println();  
        System.out.println(empName1);  
        System.out.println(empId1);  
        System.out.println(Designation1);  
  
        System.out.println();  
    }  
}
```

```
package employeepackage;
```

```
//class Manager is a created to be a default class to restrict the accessibility outside the  
employeepackage
```

```
public class Manager {  
    private String managerName = "Chorage";  
    private String managerId = "M200806M";
```

```

        void displayManager() {
            System.out.println("Manager Details");
            System.out.println();
            System.out.println(managerName);
            System.out.println(managerId);
        }
    }
}

```

package employeepackage;

//created a Admin class as a public class and can be accessible outside the package too, the properties of class Employee and Manager can be accessed only through the class Admin.

```

public class Admin {
    private String adminName = "kavitha";
    private String adminId = "A190304A";

    public void displayAdmin() {

        System.out.println("Admin details");
        System.out.println();
        System.out.println(adminName);
        System.out.println(adminId);
        Manager manager = new Manager();
        manager.displayManager();
        Employee employee = new Employee();
        employee.displayEmployee();
    }
}

```

package departmentpackage; // created another package departmentpackage.

public class Department { // class Department is made public so that can be accessed outside the package

```

    private String departmentName1="Developing";
    private String departmentName2="Analysing";
    public void displayDepartment() {
        System.out.println("Department list");
    }
}

```

```

        System.out.println(departmentName1);
        System.out.println(departmentName2);
        Project project=new Project();
        project.displayProject();
    }
}

```

```
package departmentpackage;
```

class Project { // class Project is made default class to restrict its accessiblity outside the class,it properties can be accessed outside the package only through the class Department.

```

    private String projectName1 = "Alpha";
    private String projectName2 = "Beta";
    private String projectName3 = "Delta";

    public void displayProject() {

        System.out.println();
        System.out.println("Project list");
        System.out.println(projectName1);
        System.out.println(projectName2);
        System.out.println(projectName3);
    }
}

```

```
package employeepackage;
```

```
import java.util.Scanner;
```

```
import departmentpackage.*; // importing the departmentpackage for using the class
Department and Project class
```

```

public class TestEmployeePackage {
    public static void main(String[] args) {
        /*      Employee employee = new Employee();
               employee.displayEmployee();

               Manager manager = new Manager();
               manager.displayManager();
               System.out.println();*/

        Admin admin = new Admin();
    }
}

```

```
admin.displayAdmin();  
System.out.println();
```

```
Department department = new Department();  
department.displayDepartment();
```

```
    }  
}
```

```
package departmentpackage;
```

```
import employeepackage.*; // importing package employeepackage to use the properties of class  
Admin.
```

```
public class TestDepartmentPackage {
```

```
    public static void main(String[] args) {
```

```
        Department department = new Department();  
        department.displayDepartment();
```

```
        Admin admin = new Admin();  
        admin.displayAdmin();
```

```
    }  
}
```