Package is a group of classes grouped together to avoid naming ambiguity and increase resuability.

**P1 Package P2 Package**

**A -- show() X**

**B extends A Y extends A**

**C**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Public | Private | Protected | Friend(default) | Private protected |
| A  [in same class] | **Y** | **Y** | **Y** | **Y** | **Y** |
| B  [Derived Class in Same Package] | **Y** | **N** | **Y** | **Y** | **Y** |
| C  [Non Derived Same Package] | **Y** | **N** | **Y** | **Y** | **N** |
| X  [Non Derived class in other Package] | **Y** | **N** | **N** | **N** | **N** |
| Y  [Derived Class in other Package] | **Y** | **N** | **Y** | **N** | **Y** |

Make a package Calculate with four class members Addition, Subtraction, Division, Multiplication

Each class should contain a two int fileds, a no arguement constructor, a parmeterised constructor, a method to make respective calculation and return an appropriate value.

Make a java program to import this package and use a choice based methodology to execute the result.