Dt : 9/8/2023

faq:

define Access modifiers in Java?

 =>Access modifiers in Java will specify the scope of programming components

 within the JavaProject.

 =>The following are some important access modifiers in Java:

 1.public

 2.private

 3.protected

 4.default

1.public:

 =>"public" programming components are accessed within the JavaProject.

2.private:

 =>"private" programming components are accessed within the class only.

3.protected:

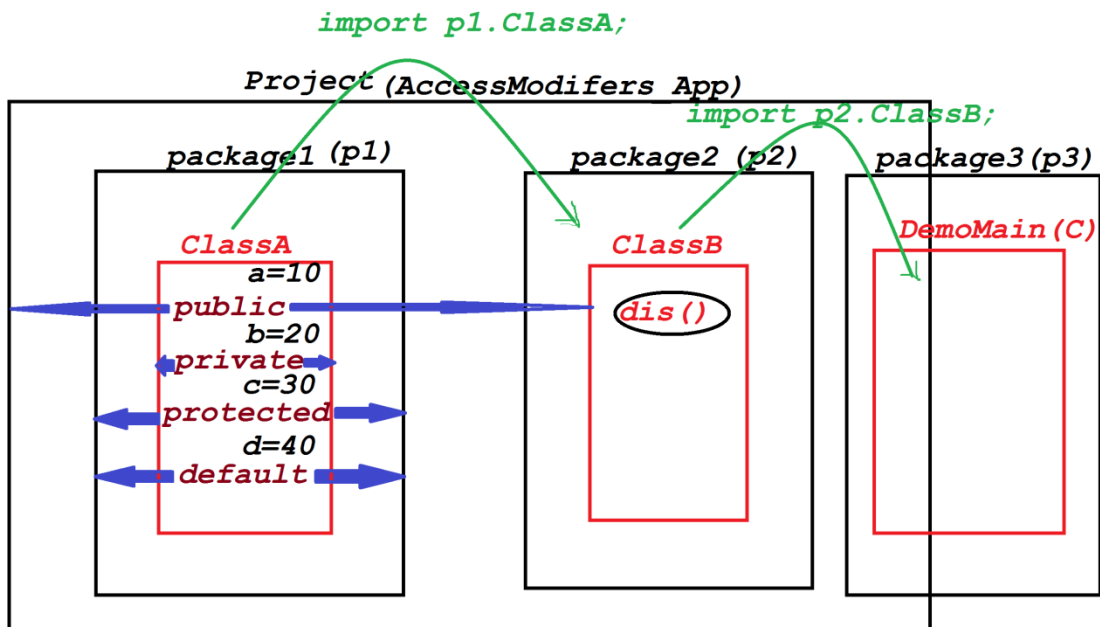 *=>"protected" programming components are accessed within the package.*

4.default:

=>The programming components which are declared without any access modifiers

are considered as default.

=>default programming components are accessed within the package.

Diagram:

```
                         import p1.ClassA;
              Project (AccessModifers App)
                                    import p2.ClassB;
         package1 (p1)           package2 (p2)    package3(p3)

                                                DemoMain(C)
            ClassA
              a=10                    ClassB
            public                    dis()
              b=20
            private
              c=30
            protected
              d=40
            default
```

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faq:

wt is the difference b/w

(i)protected

(ii)default

=>"protected" programming components are available to ChildClasses which are

outside the package,but default programming components are not available to

ChildClasses.

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=========

Ex:

ProjectName : AccessModifers_App

packages,

p1 : ClassA.java

```java
package p1;
public class ClassA
{
    public int a=10;
    private int b = 20;
    protected int c= 30;
    int d=40;
}
```

p2 : ClassB.java

```java
package p2;
import p1.ClassA;
public class ClassB
{
    public ClassA ob = new ClassA();//NonPrimitive
Instance variable
    public void dis()
    {
        System.out.println("Value a : "+ob.a);
        //System.out.println("Value b : "+ob.b);
        //System.out.println("Value c : "+ob.c);
        //System.out.println("Value d : "+ob.d);
    }
}
```

p3 : DemoMain.java(MainClass)

```java
package p3;
import p2.ClassB;
public class DemoMain {
    public static void main(String[] args) {
        ClassB ob2 = new ClassB();
        ob2.dis();
    }
}
```

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