

**Access modifiers in Java**

Java access modifier classifies the accessibility level of the class OR the accessibility level of the member.

- If no access specifier is present, then we have local & private members.
- If we use `public` keyword, then the class is accessible from anywhere.
- If we use `private` keyword, then the class is accessible from same package only.
- If we use `protected` keyword, then the class is accessible from same package and from another package using inheritance.
- If we use `default` keyword, then the class is accessible from same class file or package.

In case of classes, we can use class as private or protected OR static. Generally we should declare the static variable as private or protected member (final being an exception).

In case of methods, we can use access modifier as private, protected, final, static and non-static modifier only.

**default OR package**

If it is an access modifier then it is less restrictive than private. It is such kind of access modifier which is used to declare the class which is accessible from same package only.

As far as the accessibility is concerned, default members are accessible within the same package only.

**package** (one level deep)

```

package com.ravi.srl;
public class Test {
    import com.ravi.srl.Test;
    public class Main {
        public static void main(String[] args) {
            Test t1 = new Test();
            Test t2 = new Test();
        }
    }
}

```

1. A class member which is three restriction lower than the member declared as protected OR private from the module of the package (here it is by using package keyword).

**protected**

```

package com.ravi.srl;
public class Test {
    import com.ravi.srl.Test;
    protected class Main {
        protected static void main(String[] args) {
            Test t1 = new Test();
            Test t2 = new Test();
        }
    }
}

```

2. An object created in one module can access the classes and methods as public which are declared in another module.

**private**

```

package com.ravi.srl;
public class Test {
    import com.ravi.srl.Test;
    private class Main {
        private static void main(String[] args) {
            Test t1 = new Test();
            Test t2 = new Test();
        }
    }
}

```

3. An object created in one module does not return any kind of restriction that the related member declared as public or protected in another module can access the classes and methods as private which are declared in another module.

**public**

```

package com.ravi.srl;
public class Test {
    import com.ravi.srl.Test;
    public class Main {
        public static void main(String[] args) {
            Test t1 = new Test();
            Test t2 = new Test();
        }
    }
}

```

4. An object created in one module does not return any kind of restriction that the related member declared as protected OR private in another module can access the classes and methods as public which are declared in another module.

**Note:** If we want to make a member accessible from another module then we can declare that method as private and implementing it in the target module.

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