```java
package root;

public class modifier {

    public static void main(String[] args) {

        MyClass myObj = new MyClass();

        // Access public method
        myObj.publicMethod();

        // Access protected method
        myObj.protectedMethod();

        // Access default method
        myObj.defaultMethod();

        // This line will cause a compilation error
        // myObj.privateMethod();
    }
}

class MyClass {

    public void publicMethod() {
        System.out.println("This is a public method.");
    }

    protected void protectedMethod() {
        System.out.println("This is a protected method.");
```

```java
    }

    void defaultMethod() {

        System.out.println("This is a default method.");

    }


    private void privateMethod() {

        System.out.println("This is a private method.");

    }

}
```