

# Lesson Notes: 05/02/2026

## Access Modifiers

Modifier	Class Level	Package Level	Derived Class Level	Open
public	Y	Y	Y	Y
protected	Y	Y	Y	N
no modifier	Y	Y	N	N
private	Y	N	N	N

We could also have used no modifier because the test is within the same package.

## Exercise

(20 minutes)

Consider what other tests we might need so that we can show that the code is working. We should have at least one test for each possible outcome

- "Good morning!"
- "Good afternoon!"
- "Good evening!"

Remember that we are trying to ensure the integrity and quality of the code and that it does what it is expected to do.

Write as many tests in AppTest as you think are reasonable.

## Code for Selection

```
public class App {
    public static void main(String[] args) {
        int mark = 85;
        System.out.println(getGrade(mark));

        System.out.println(priority(1));
    }

    public static String getGrade(int mark) {
//        if (mark >= 85) {
//            return "Distinction";
```

```

//    } else if (mark >= 65) {
//        return "Pass";
//    } else {
//        return "Fail";
//    }
    return (mark >= 85) ? "Distinction" : ((mark >= 65) ? "Pass" : "Fail");
}

```

```

public static String priority(int level)
{
    String priority = "Code ";
    return switch (level) {
        case 3 -> priority += "Red";
        case 2, 1 -> priority += "Amber";
        case 0 -> priority += "Green";
        default -> priority = "Error";
    };
//
//    switch (level)
//    {
//        case 3:
//            priority += "Red";
//            break;
//        case 2:
//        case 1:
//            priority += "Amber";
//            break;
//        case 0:
//            priority += "Green";
//            break;
//        default:
//            priority = "Error";
//            break;
//    }
//    return priority;
}
}

```