

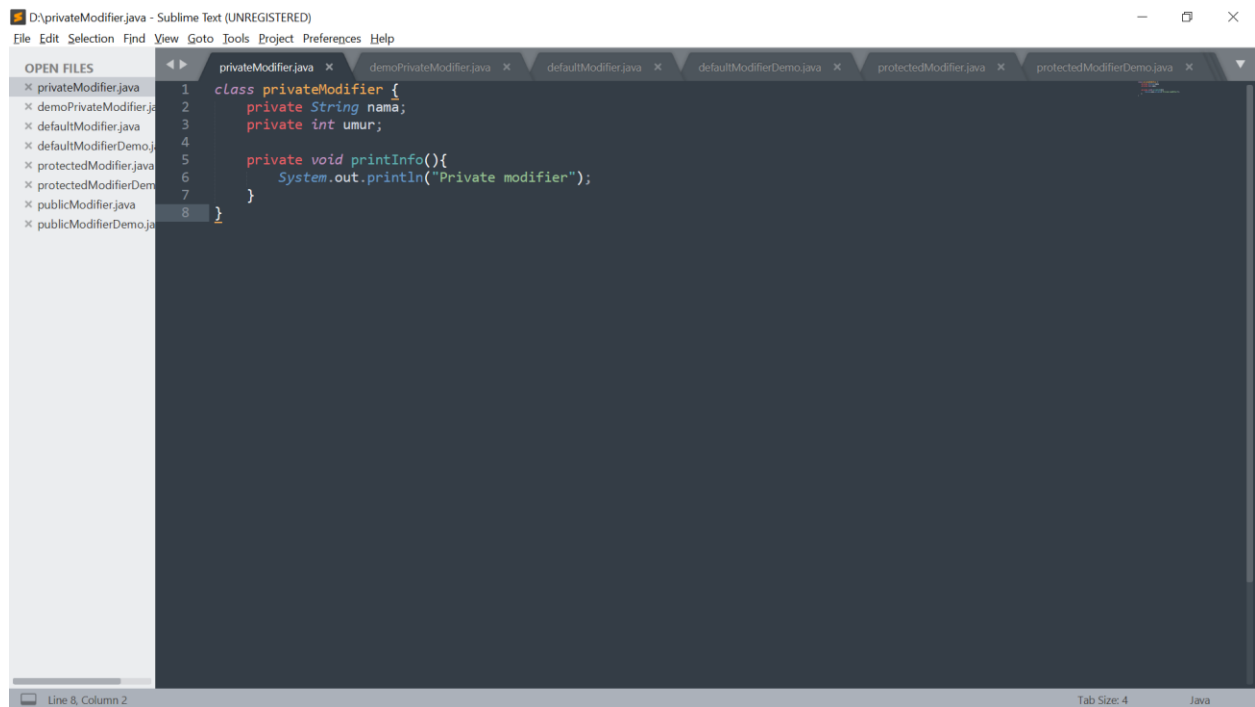
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Modul 4

1. Private Modifier

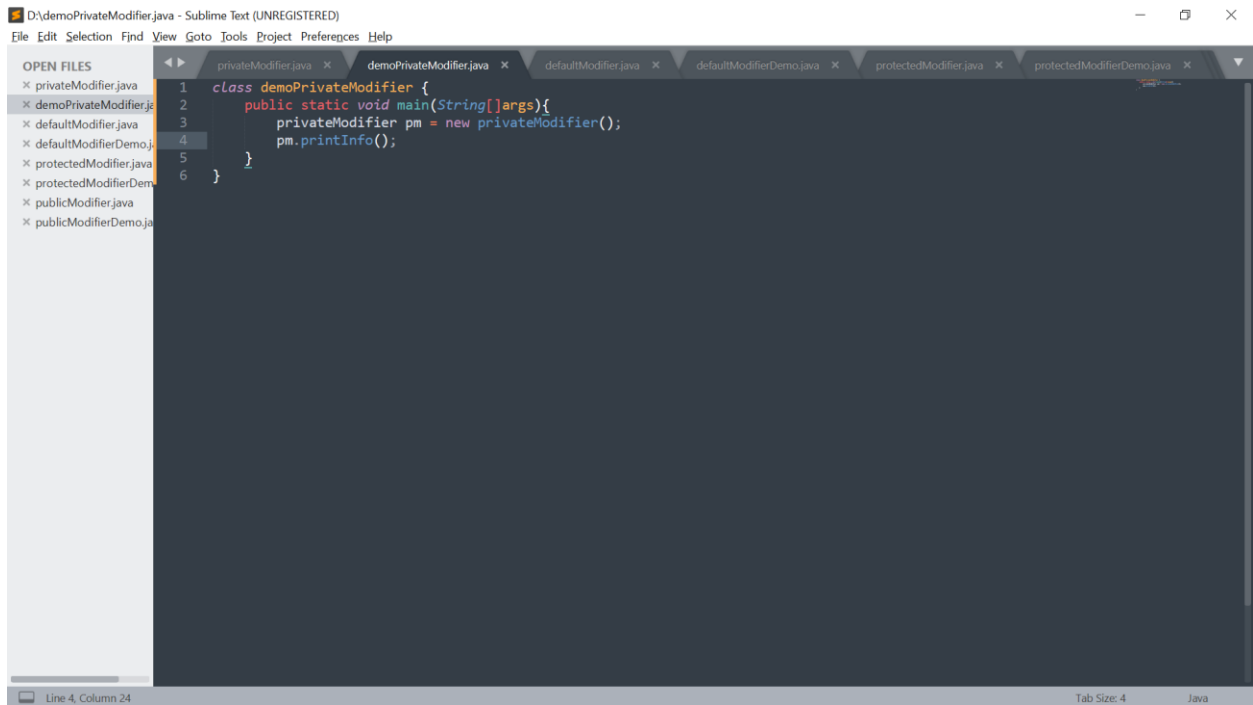


```
D:\privateModifier.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES
x privateModifier.java
x demoPrivateModifier.java
x defaultModifier.java
x defaultModifierDemo.java
x protectedModifier.java
x protectedModifierDemo.java
x publicModifier.java
x publicModifierDemo.java

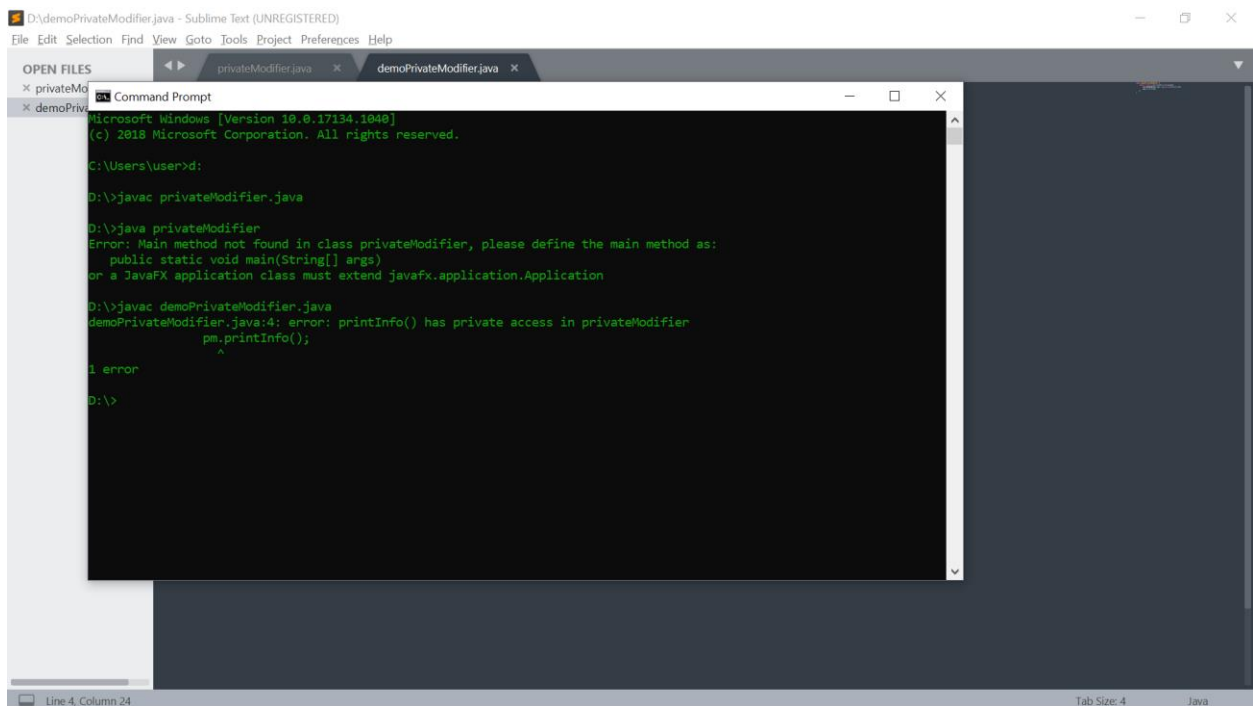
1 class privateModifier {
2     private String nama;
3     private int umur;
4
5     private void printInfo(){
6         System.out.println("Private modifier");
7     }
8 }

Line 8, Column 2
Tab Size: 4
Java
```



```
1 class demoPrivateModifier {
2     public static void main(String[] args){
3         privateModifier pm = new privateModifier();
4         pm.printInfo();
5     }
6 }
```

Tidak dapat diakses karena hanya dapat diakses didalam package dan class yang sama



```
Microsoft Windows [Version 10.0.17134.1040]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\user>

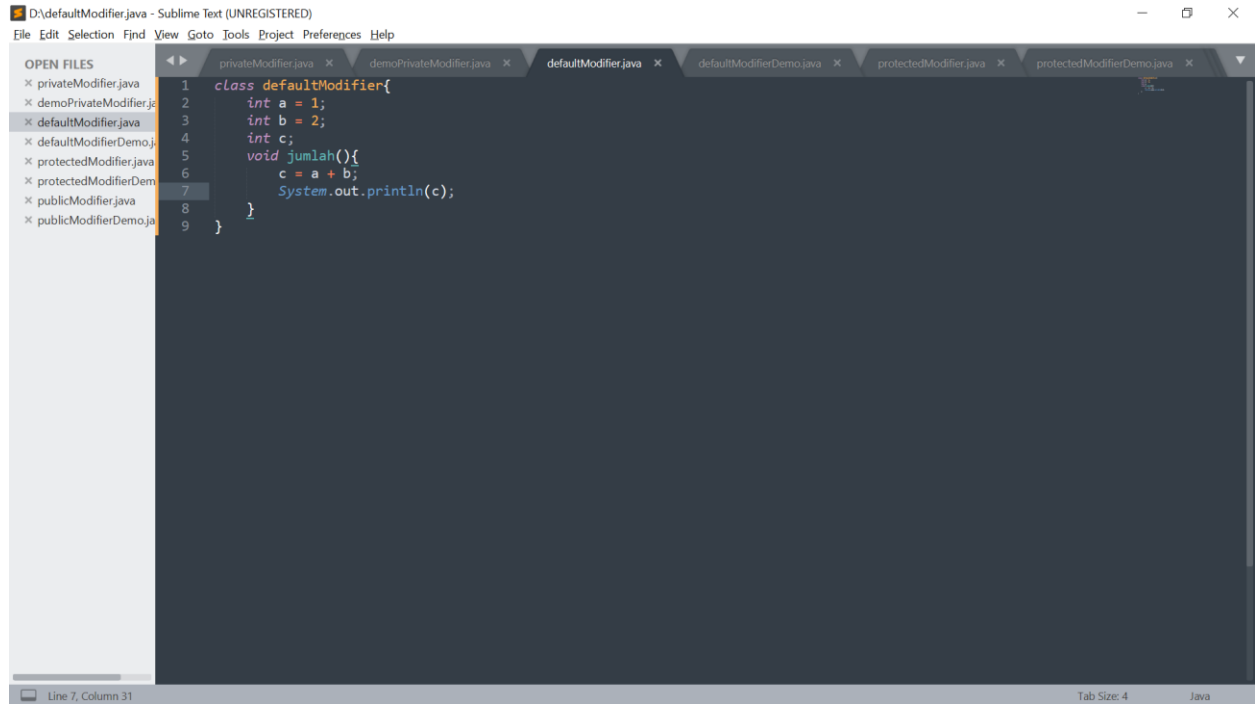
D:\>javac privateModifier.java

D:\>java privateModifier
Error: Main method not found in class privateModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>javac demoPrivateModifier.java
demoPrivateModifier.java:4: error: printInfo() has private access in privateModifier
    pm.printInfo();
        ^
1 error

D:\>
```

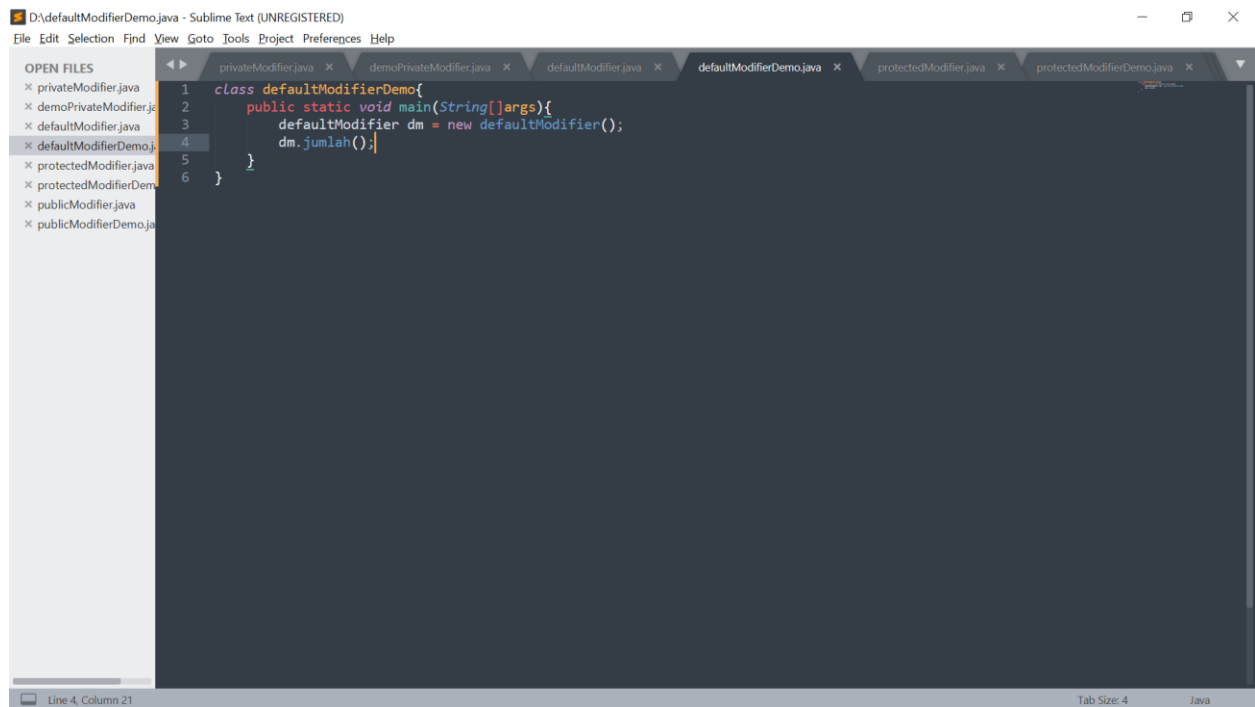
2. Default Modifier



The screenshot shows the Sublime Text editor with the file `defaultModifier.java` open. The editor has a dark theme and a sidebar on the left showing the "OPEN FILES" list. The code in the editor is as follows:

```
1 class defaultModifier{
2     int a = 1;
3     int b = 2;
4     int c;
5     void jumlah(){
6         c = a + b;
7         System.out.println(c);
8     }
9 }
```

The status bar at the bottom indicates "Line 7, Column 31" and "Tab Size: 4".



The screenshot shows the Sublime Text editor with the file `defaultModifierDemo.java` open. The editor has a dark theme and a sidebar on the left showing the "OPEN FILES" list. The code in the editor is as follows:

```
1 class defaultModifierDemo{
2     public static void main(String[] args){
3         defaultModifier dm = new defaultModifier();
4         dm.jumlah();
5     }
6 }
```

The status bar at the bottom indicates "Line 4, Column 21" and "Tab Size: 4".

The screenshot shows the Sublime Text editor with a Command Prompt window open. The Command Prompt displays the following commands and errors:

```
D:\>java privateModifier
Error: Main method not found in class privateModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>javac demoPrivateModifier.java
demoPrivateModifier.java:4: error: printInfo() has private access in privateModifier
    pm.printInfo();
       ^
1 error

D:\>javac defaultModifier.java

D:\>java defaultModifier
Error: Main method not found in class defaultModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>javac defaultModifierDemo.java

D:\>java defaultModifierDemo
3
D:\>
```

The Sublime Text editor shows the following open files: privateModifier.java, demoPrivateModifier.java, defaultModifier.java, and defaultModifierDemo.java. The status bar at the bottom indicates "Line 4, Column 21", "Tab Size: 4", and "Java".

Tidak dapat diakses karena default modifier hanya dapat diakses didalam class berbeda namun dalam package yang sama.

The screenshot shows the Sublime Text editor with a Command Prompt window open. The Command Prompt displays the following commands and errors:

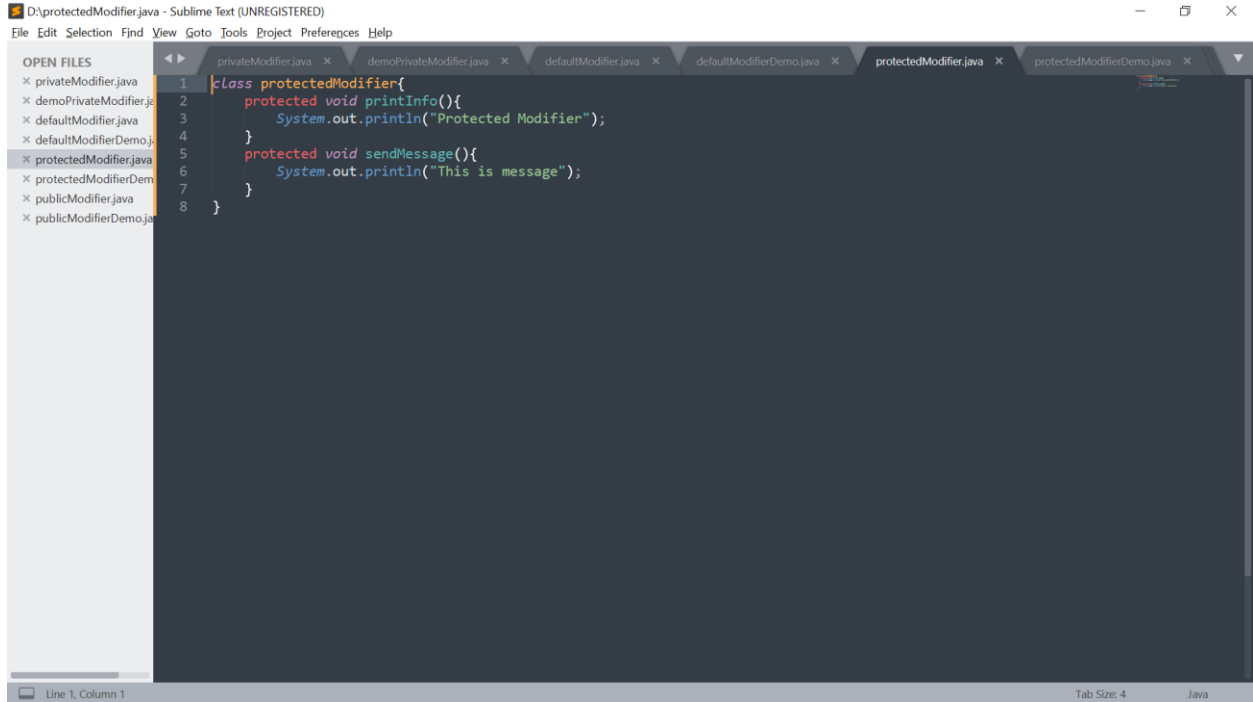
```
D:\>javac defaultModifier.java

D:\>java defaultModifier
Error: Main method not found in class defaultModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>
```

The Sublime Text editor shows the following open files: defaultModifier.java, defaultModifierDemo.java, protectedModifier.java, protectedModifierDemo.java, publicModifier.java, and publicModifierDemo.java. The status bar at the bottom indicates "Line 7, Column 31", "Tab Size: 4", and "Java".

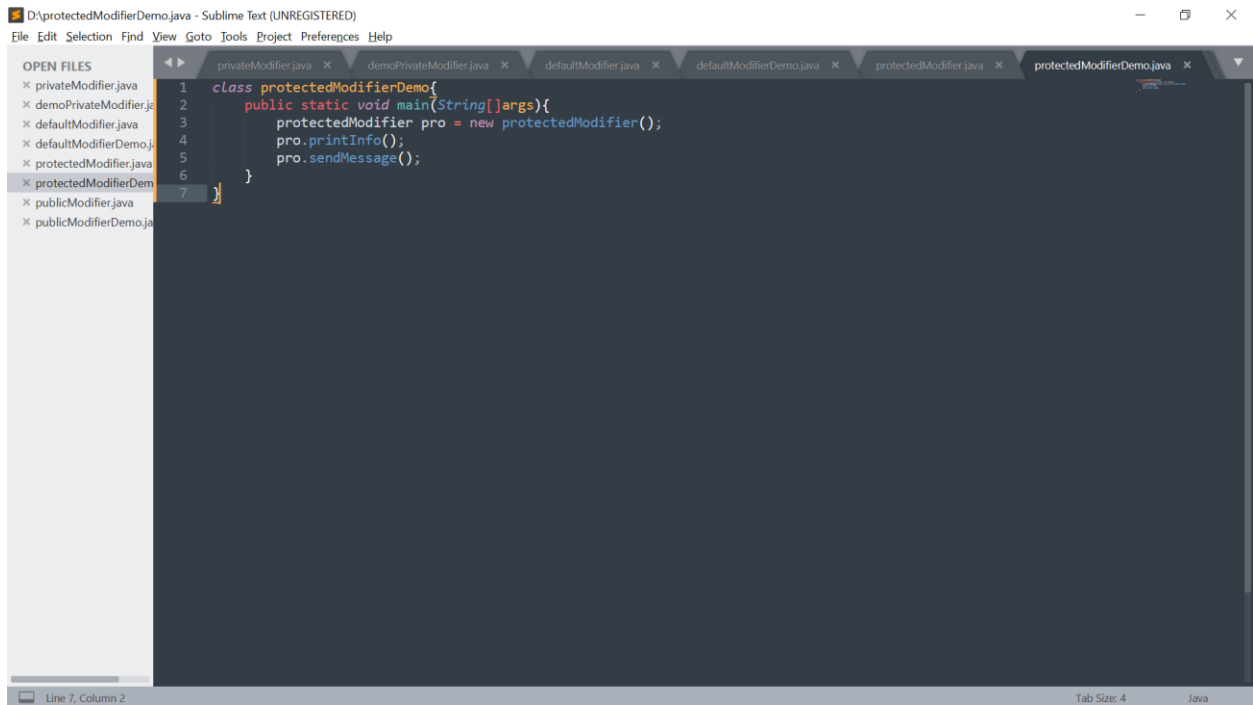
3. Protected Modifier



The screenshot shows the Sublime Text editor with the file `protectedModifier.java` open. The editor has a dark theme and a sidebar on the left showing the "OPEN FILES" list. The main editing area contains the following Java code:

```
1 class protectedModifier{
2     protected void printInfo(){
3         System.out.println("Protected Modifier");
4     }
5     protected void sendMessage(){
6         System.out.println("This is message");
7     }
8 }
```

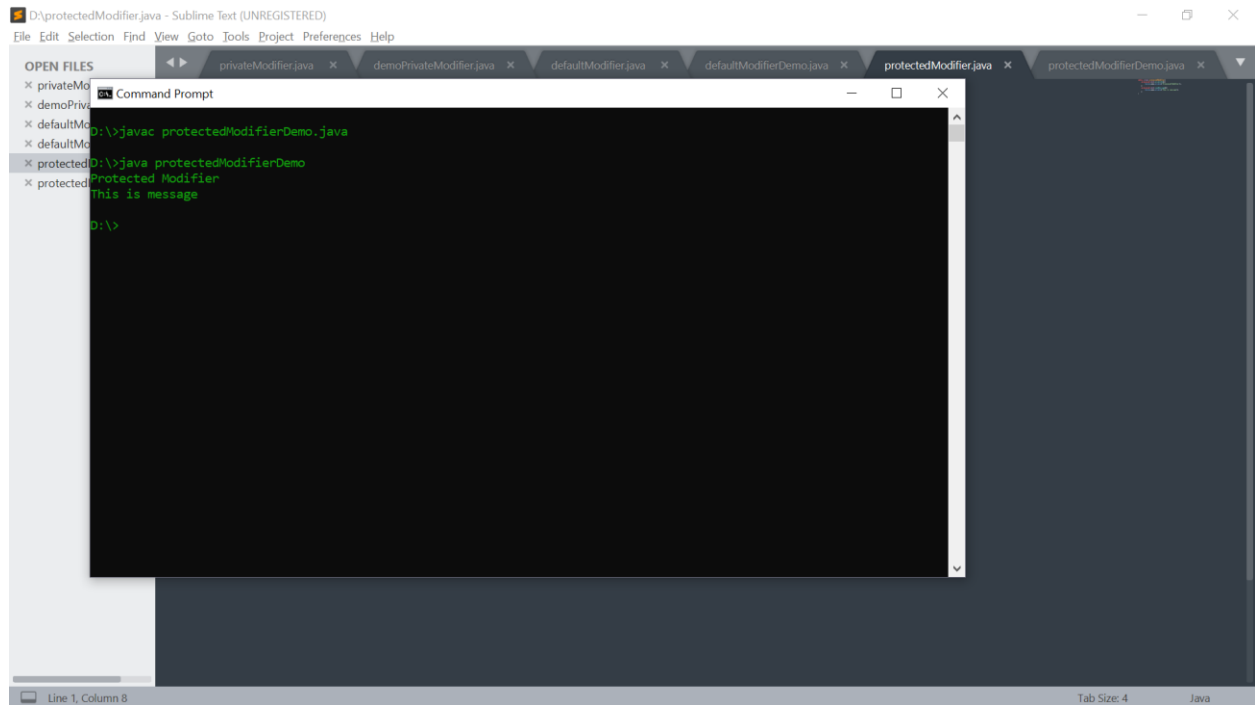
The status bar at the bottom indicates "Line 1, Column 1" and "Tab Size: 4 Java".



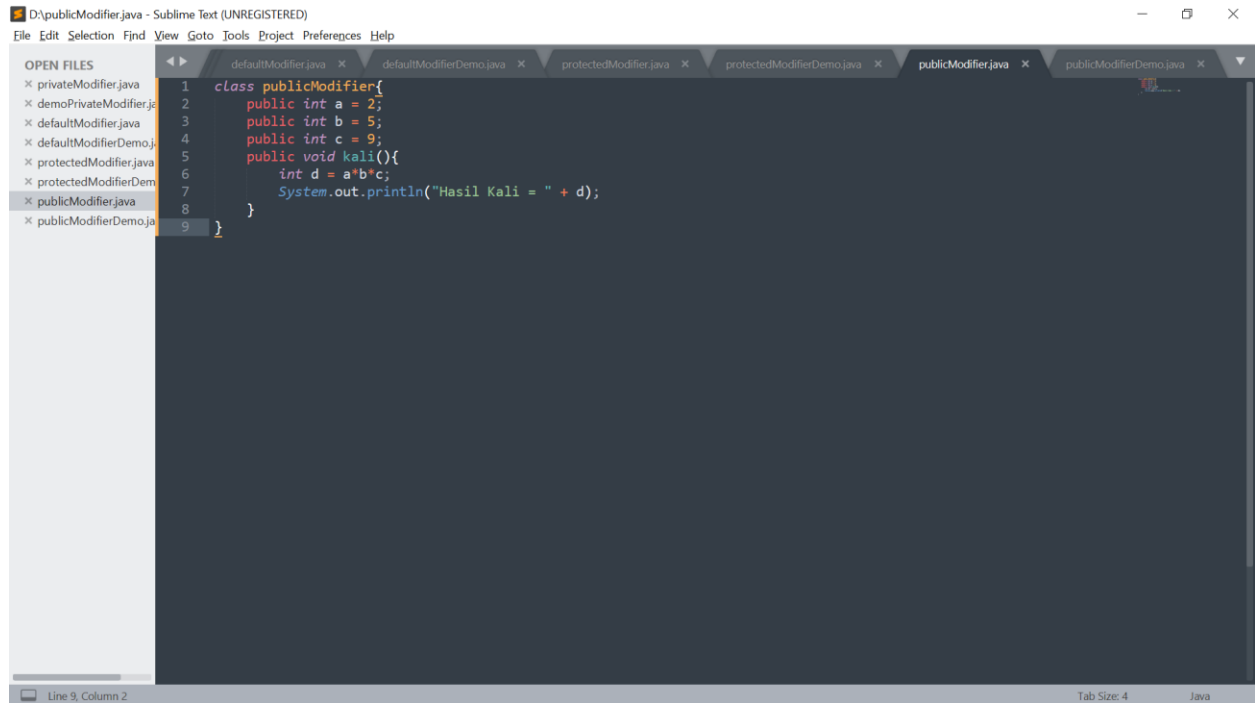
The screenshot shows the Sublime Text editor with the file `protectedModifierDemo.java` open. The editor has a dark theme and a sidebar on the left showing the "OPEN FILES" list. The main editing area contains the following Java code:

```
1 class protectedModifierDemo{
2     public static void main(String[] args){
3         protectedModifier pro = new protectedModifier();
4         pro.printInfo();
5         pro.sendMessage();
6     }
7 }
```

The status bar at the bottom indicates "Line 7, Column 2" and "Tab Size: 4 Java".



4. Public Modifier



D:\publicModifierDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- × privateModifier.java
- × demoPrivateModifier.java
- × defaultModifier.java
- × defaultModifierDemo.java
- × protectedModifier.java
- × protectedModifierDemo.java
- × publicModifier.java
- × publicModifierDemo.java

```
1 class publicModifierDemo{
2     public static void main(String[] args){
3         publicModifier pub = new publicModifier();
4         pub.kali();
5     }
6 }
```

Line 4, Column 20

Tab Size: 4 Java

D:\publicModifierDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- × privateModifier.java
- × demoPrivateModifier.java
- × defaultModifier.java
- × defaultModifierDemo.java
- × protectedModifier.java
- × protectedModifierDemo.java
- × publicModifier.java
- × publicModifierDemo.java

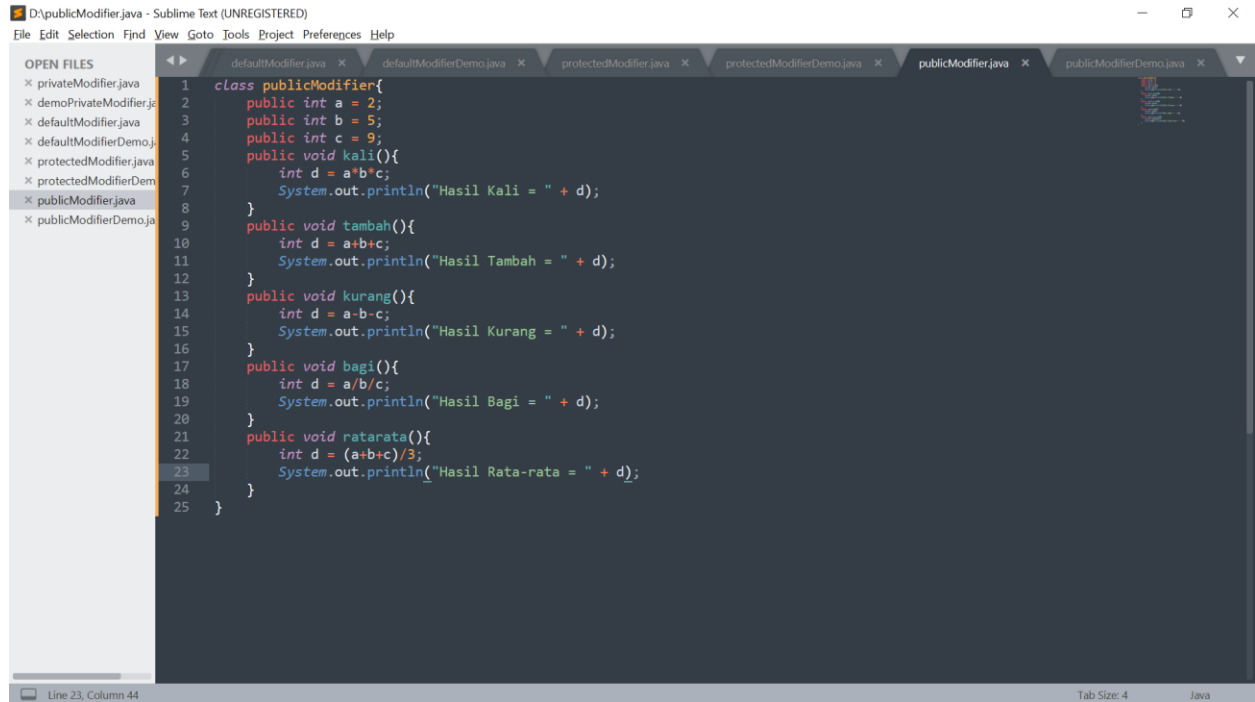
Command Prompt

```
D:\> javac protectedModifierDemo.java
D:\> java protectedModifierDemo
Protected Modifier
This is message
D:\> javac publicModifier.java
D:\> java publicModifier
Error: Main method not found in class publicModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application
D:\> javac publicModifierDemo.java
D:\> java publicModifierDemo
Masil Kali = 90
D:\>
```

Line 4, Column 20

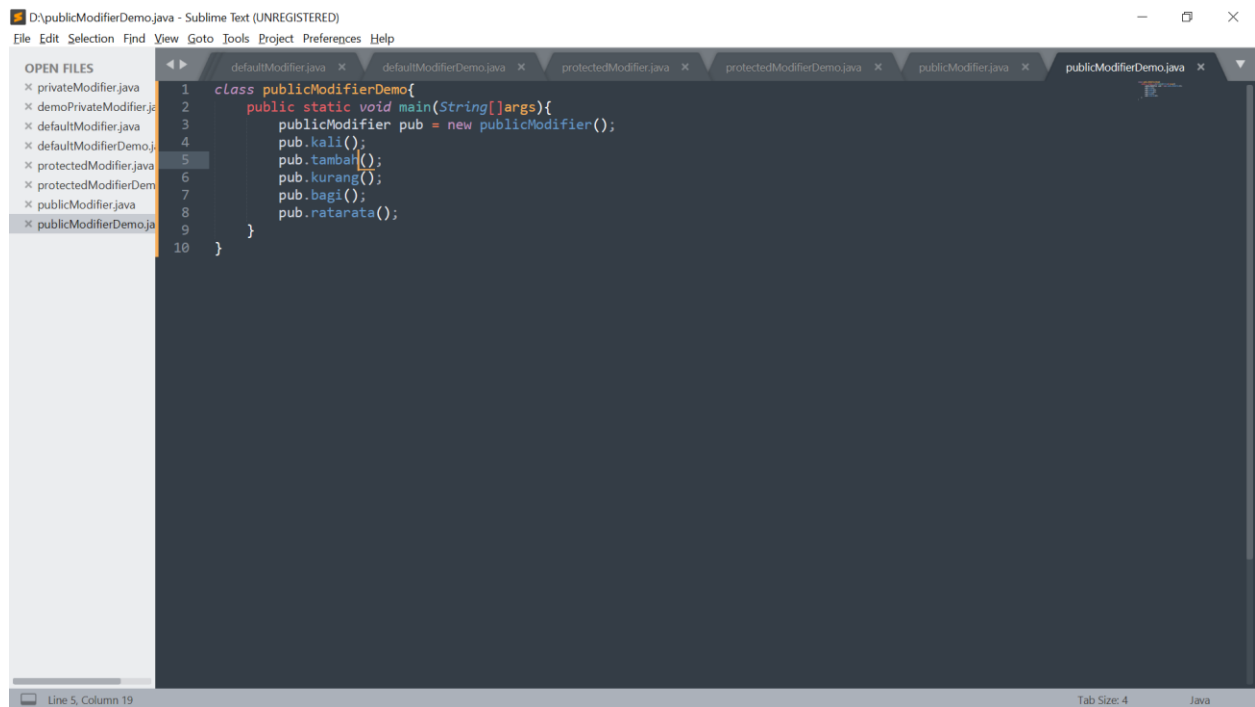
Tab Size: 4 Java

Kali, tambah, kurang, bagi, dan rata-rata



The screenshot shows the Sublime Text editor with the file `publicModifier.java` open. The code defines a `publicModifier` class with five methods: `kali` (multiplication), `tambah` (addition), `kurang` (subtraction), `bagi` (division), and `ratarata` (average). The `kali` method is currently selected.

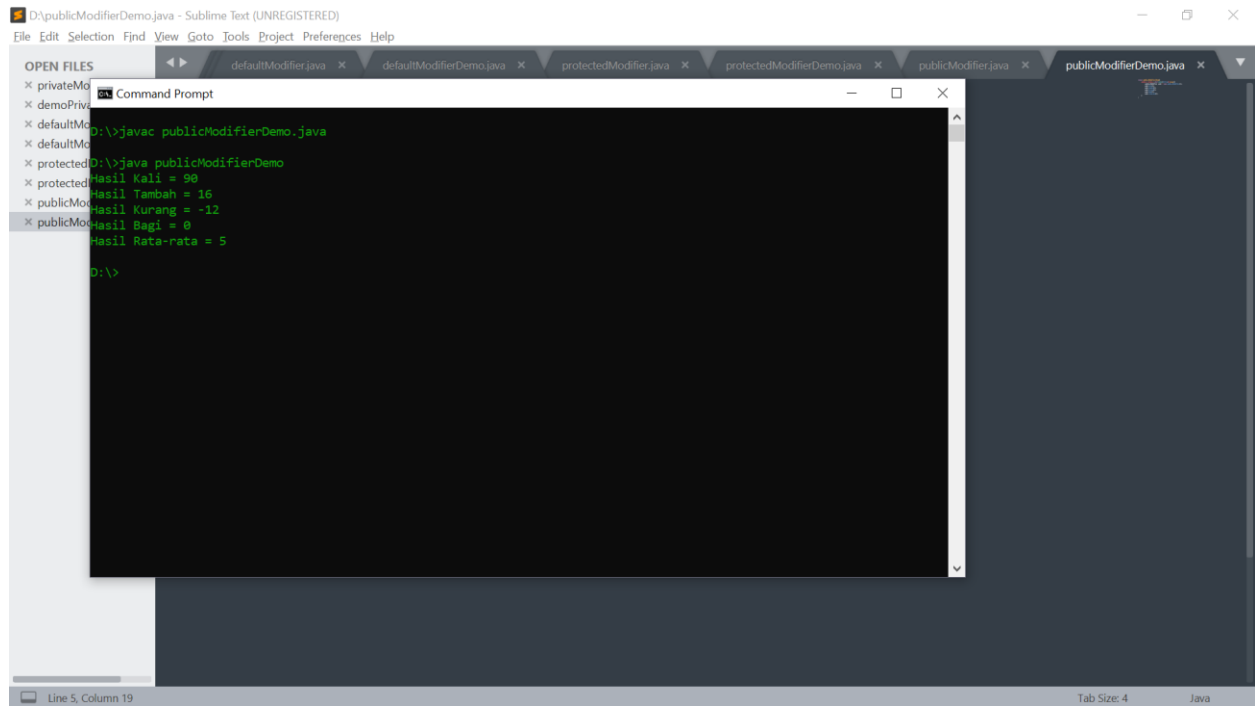
```
1 class publicModifier{
2     public int a = 2;
3     public int b = 5;
4     public int c = 9;
5     public void kali(){
6         int d = a*b*c;
7         System.out.println("Hasil Kali = " + d);
8     }
9     public void tambah(){
10        int d = a+b+c;
11        System.out.println("Hasil Tambah = " + d);
12    }
13    public void kurang(){
14        int d = a-b-c;
15        System.out.println("Hasil Kurang = " + d);
16    }
17    public void bagi(){
18        int d = a/b/c;
19        System.out.println("Hasil Bagi = " + d);
20    }
21    public void ratarata(){
22        int d = (a+b+c)/3;
23        System.out.println("Hasil Rata-rata = " + d);
24    }
25 }
```



The screenshot shows the Sublime Text editor with the file `publicModifierDemo.java` open. The code defines a `publicModifierDemo` class with a `main` method that creates an instance of `publicModifier` and calls all five methods: `kali`, `tambah`, `kurang`, `bagi`, and `ratarata`.

```
1 class publicModifierDemo{
2     public static void main(String[] args){
3         publicModifier pub = new publicModifier();
4         pub.kali();
5         pub.tambah();
6         pub.kurang();
7         pub.bagi();
8         pub.ratarata();
9     }
10 }
```


Hasil



The screenshot shows a Sublime Text editor window with the file `D:\publicModifierDemo.java` open. The editor's menu bar includes `File`, `Edit`, `Selection`, `Find`, `View`, `Goto`, `Tools`, `Project`, `Preferences`, and `Help`. The `OPEN FILES` sidebar on the left lists several files, including `privateModifier.java`, `demoPrivateModifier.java`, `defaultModifier.java`, `protectedModifier.java`, and `publicModifierDemo.java`. A `Command Prompt` window is overlaid on the editor, displaying the following output:

```
D:\>javac publicModifierDemo.java
D:\>java publicModifierDemo
Hasil Kali = 90
Hasil Tambah = 16
Hasil kurang = -12
Hasil Bagi = 0
Hasil Rata-rata = 5
D:\>
```

The status bar at the bottom of the Sublime Text window indicates `Line 5, Column 19`, `Tab Size: 4`, and `Java`.