



eclipse IDE

2023-03

Installation

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We've recently introduced the Eclipse Installer, a new and more efficient way to install Eclipse. It is a proper installer (no zip files), with a self-extracting download that leads you through the installation process. For those who prefer not to use the Installer, the packages and zip files are still available on our [package download](#) page.

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Installation



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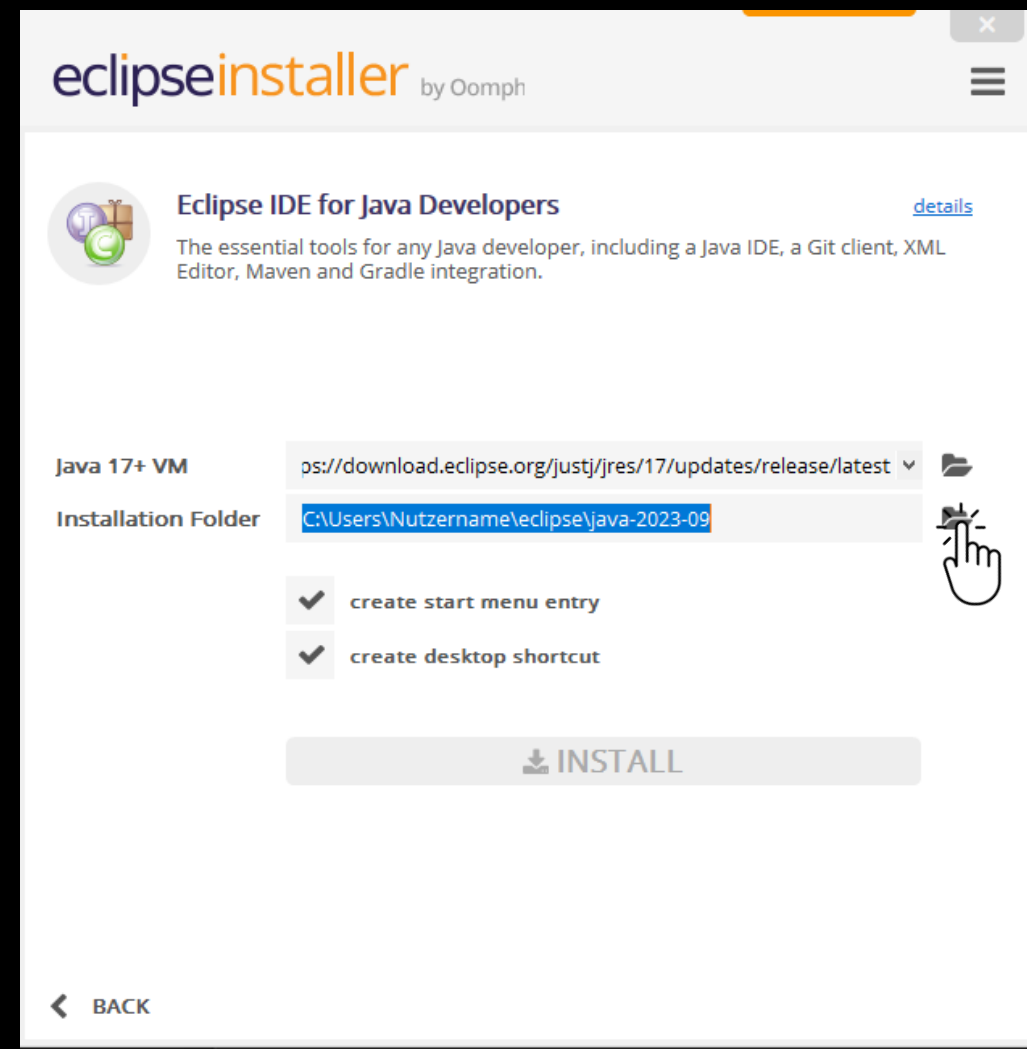
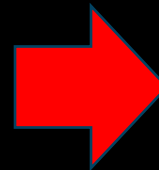
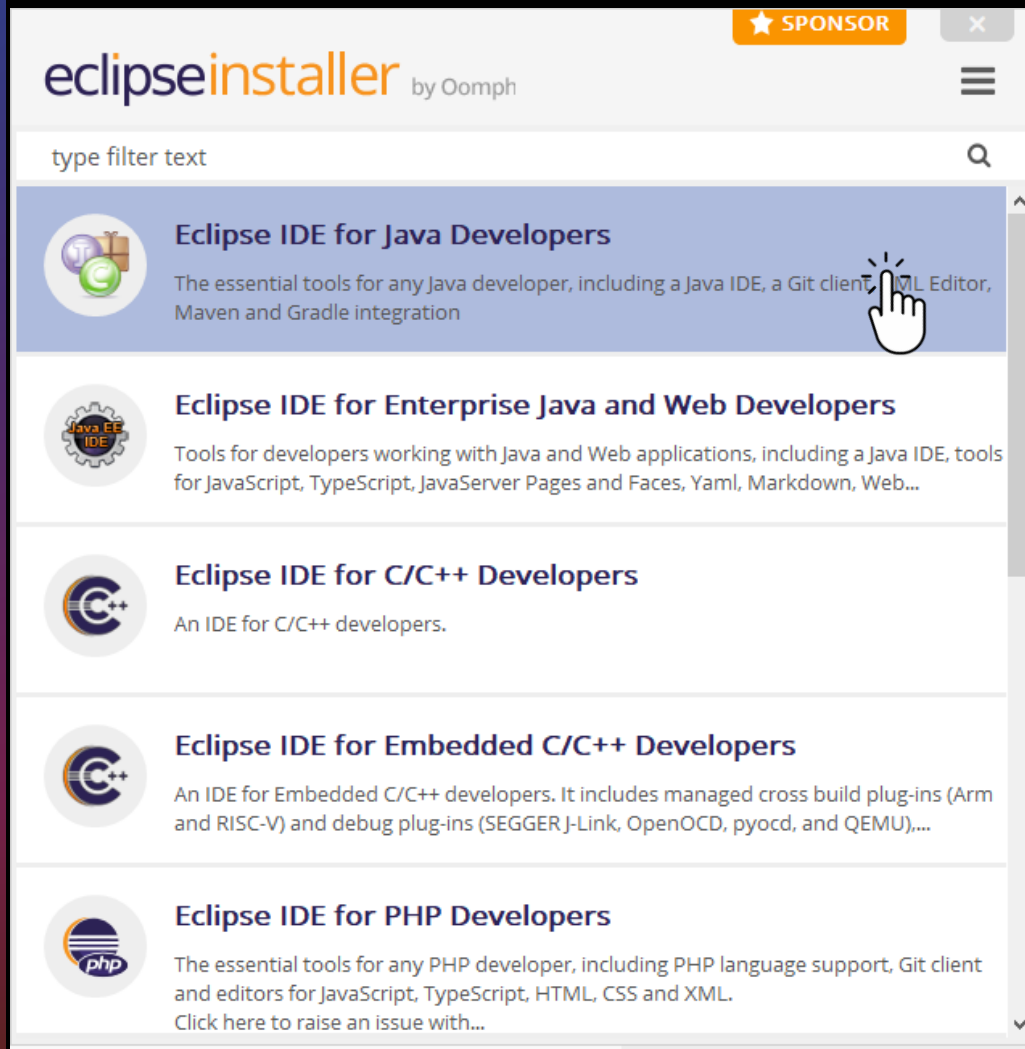
Installation

Falls der Download nicht automatisch durchgeführt wird, nochmals mit dem "click here" link versuchen

The screenshot shows the Eclipse Foundation website's download confirmation page. At the top, there is a navigation bar with the Eclipse Foundation logo, links for 'Projects', 'Working Groups', 'Members', and 'More', along with 'Log in' and 'Manage Cookies' options. Below the navigation bar, the breadcrumb trail reads 'Home / Downloads / Thank You for Downloading Eclipse'. The main content area features a large heading 'Thank you for your download!' followed by the text 'If the download doesn't start in a few seconds, please click [here](#) to start the download.' The 'here' link is highlighted with a red rectangular box, and a hand cursor is positioned over it. Below this, there is a section titled 'Sponsor the Eclipse Community' with the Eclipse Foundation logo and a paragraph of text: 'If you value Eclipse technologies, please consider supporting the Eclipse Community. Contributions from users like you help fund the operations of the Eclipse Foundation. All money contributed to the Eclipse Foundation will be used to support the Eclipse Community.' To the right of this text is a sponsorship form. The form asks 'How often would you like to sponsor?' with 'One Time' (highlighted in orange) and 'Monthly' options. It then asks 'Select the amount you'd like to give:' with buttons for '€ 250', '€ 130', '€ 80', '€ 40', '€ 25', and '€ 12'. Below these is an 'Other Amount' input field with a currency dropdown set to 'EUR'. The final question is 'How would you like to pay?' with 'Credit' and 'PayPal' options.

Installation

1. Die gerade gedownloadete Datei ausführen
2. "Eclipse IDE for Java Developers" auswählen
3. Falls die Eclipse IDE in einem anderen Ordner als Vorgegeben installiert werden soll, dann über den Ordner Icon den Wunschordner auswählen



Installation



Eclipse Installer

Eclipse Foundation Software User Agreement

Applicable licenses will be discovered and prompted later in the installation process. Avoid such interruptions by accepting the licenses that govern Eclipse content now.

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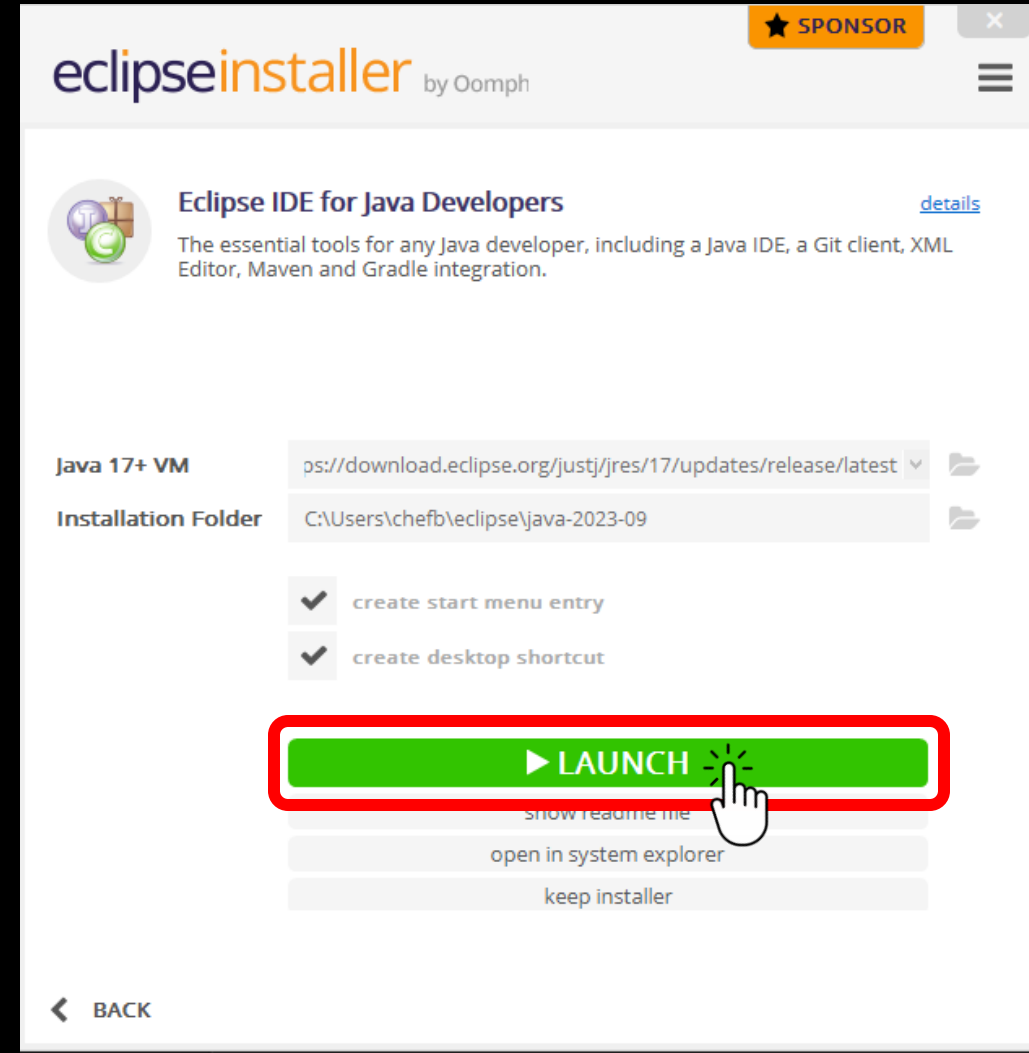
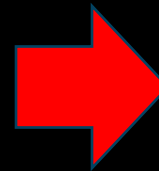
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November 22, 2017

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Installation Folder

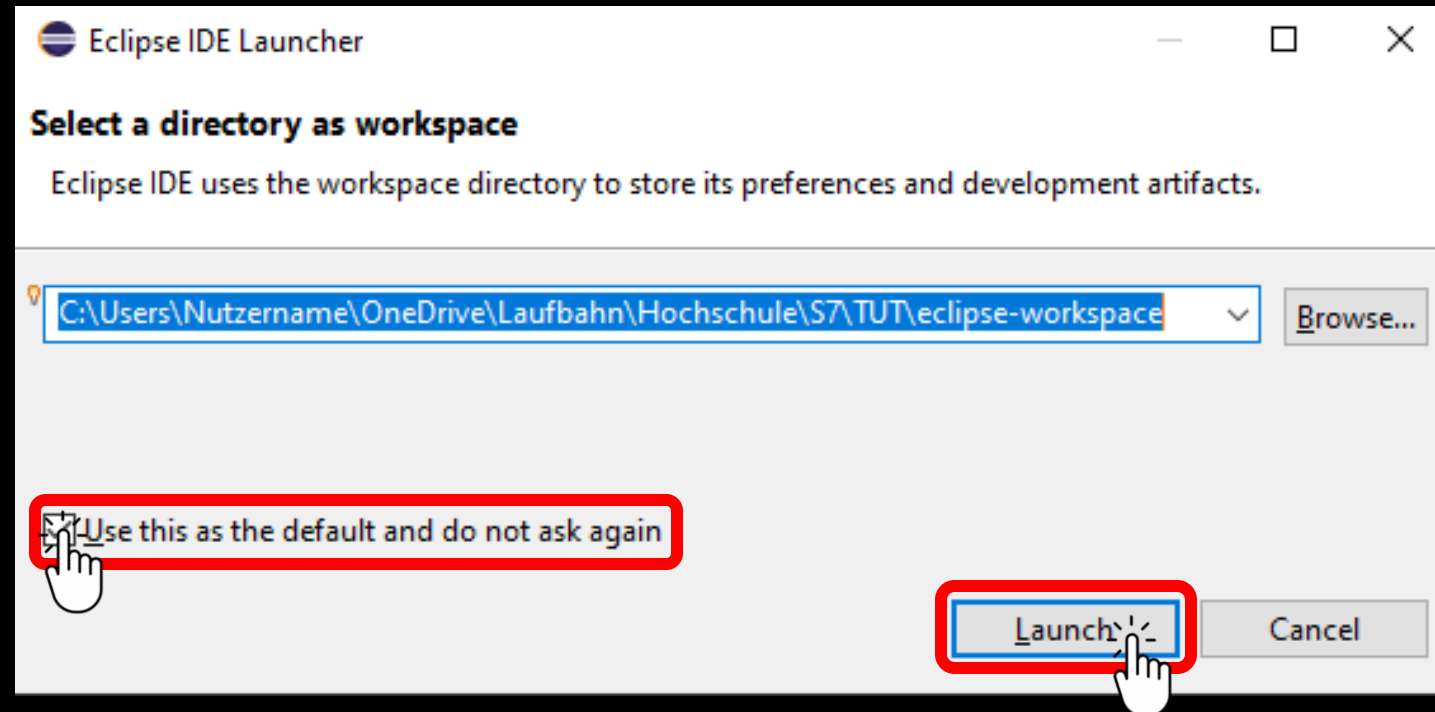
- create start menu entry
- create desktop shortcut

LAUNCH

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Installation

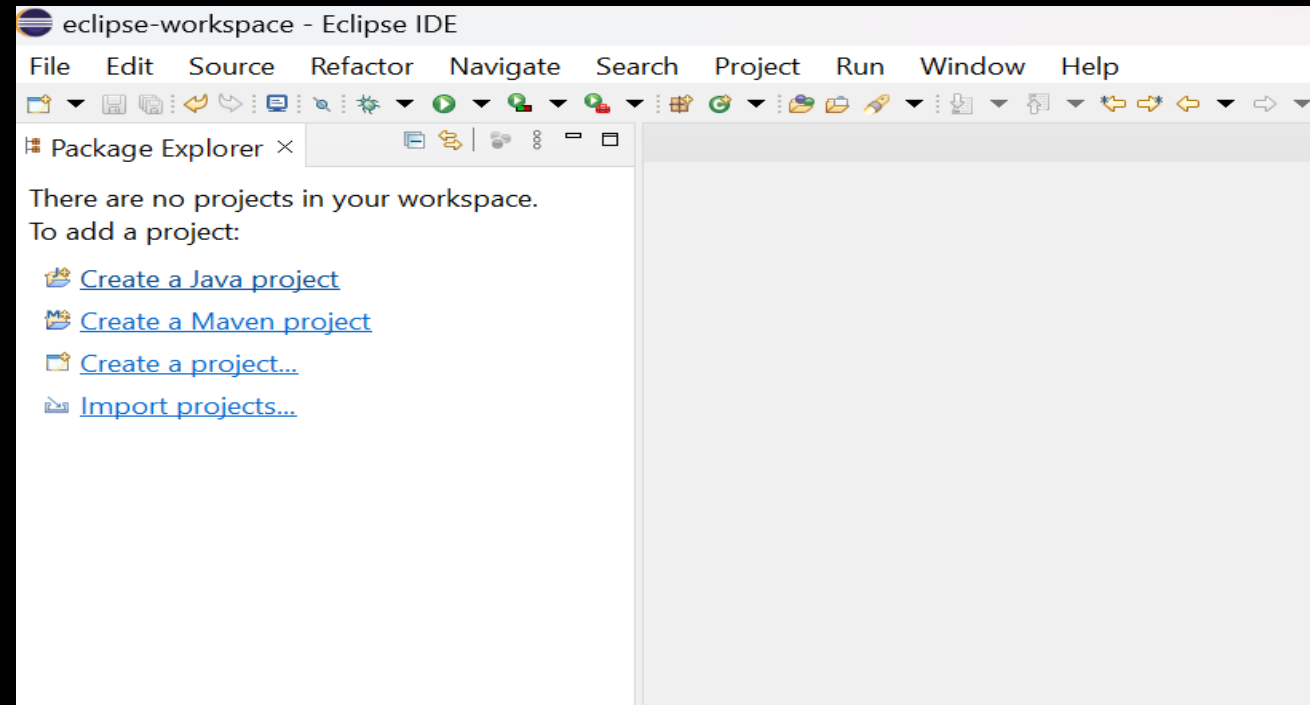
Ordner auswählen, wo der eclipse-workspace erstellt werden soll. In dem Workspace befinden sich alle Projekte und Einstellungen, die an der IDE vorgenommen wurden. Am besten das Kästchen anhaken, damit Eclipse nicht immer aufs Neue fragt welcher Workspace genutzt werden soll.



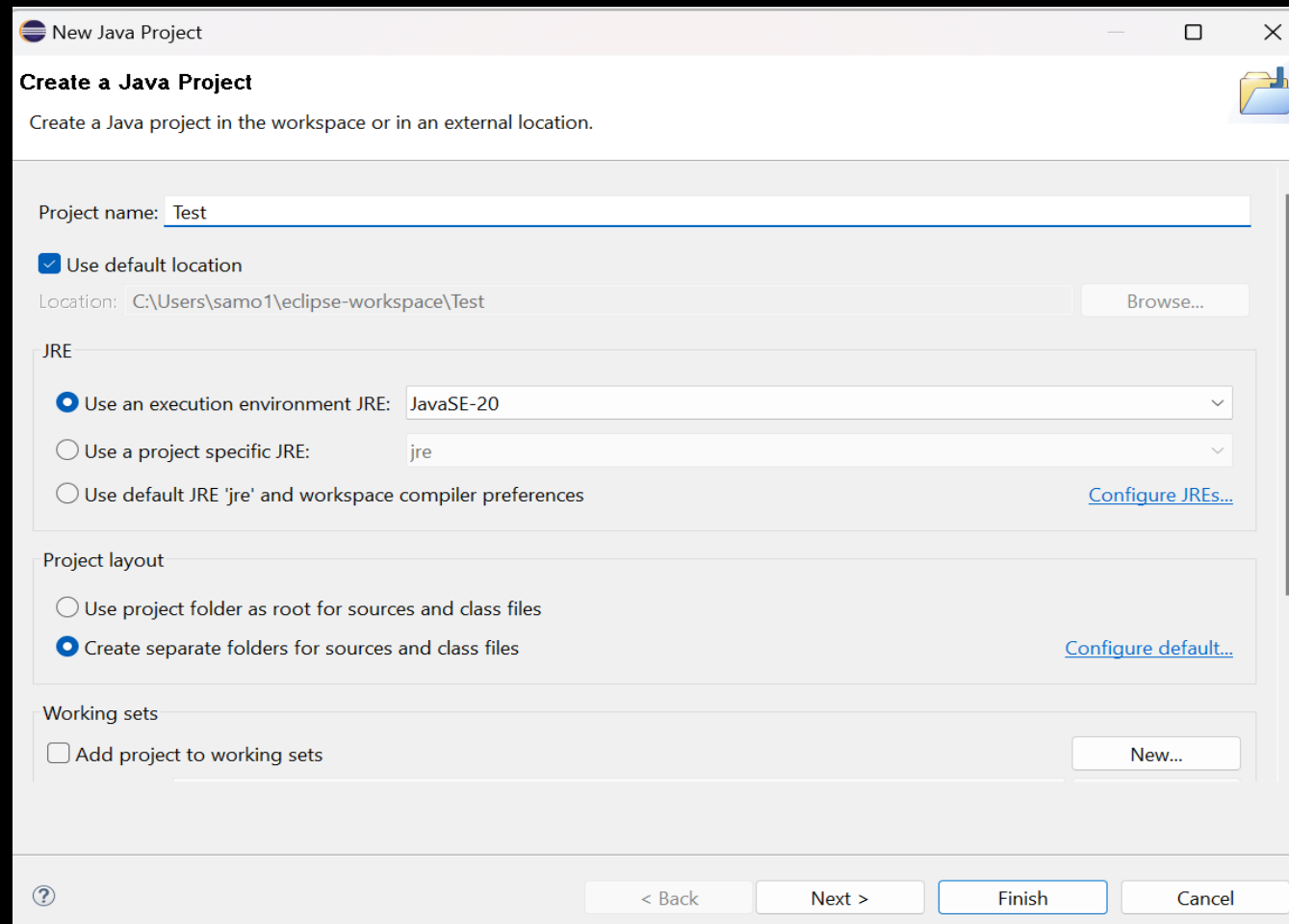


Wichtige Funktionen

Schritt 1: Auf "Create a Java project" klicken



Schritt 2: Projektnamen eingeben und auf "Finish" klicken



New Java Project

Create a Java Project

Create a Java project in the workspace or in an external location.

Project name:

Use default location

Location:

JRE

Use an execution environment JRE:

Use a project specific JRE:

Use default JRE 'jre' and workspace compiler preferences [Configure JREs...](#)

Project layout

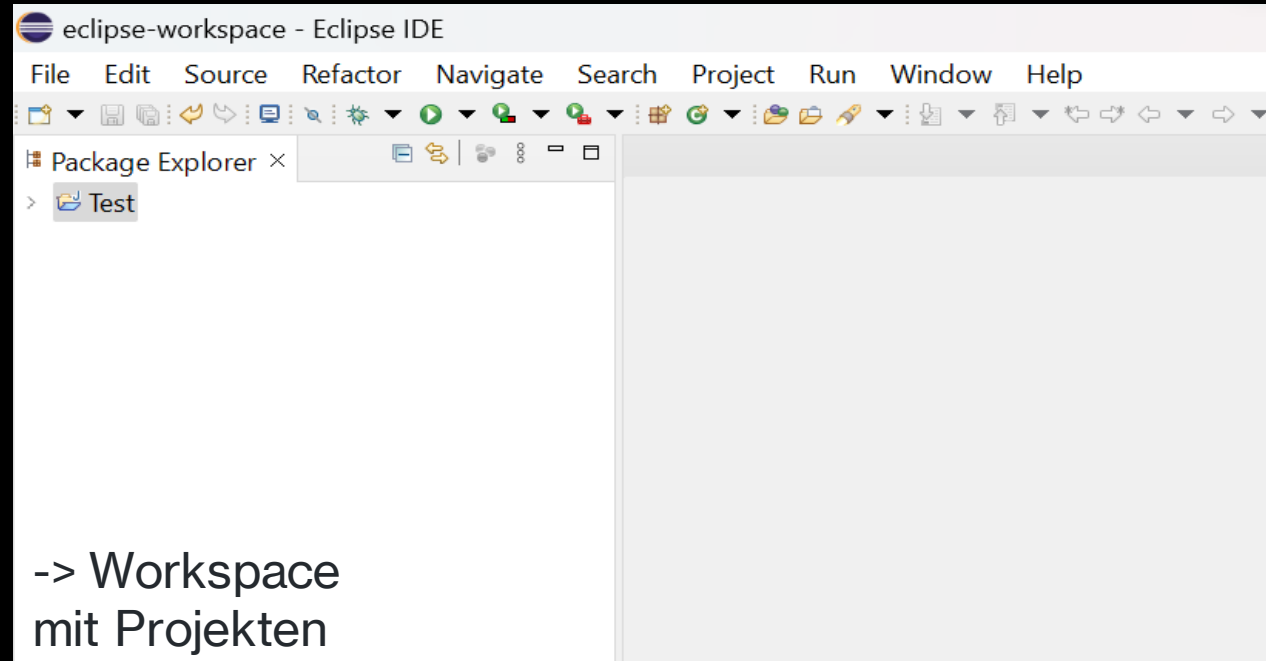
Use project folder as root for sources and class files

Create separate folders for sources and class files [Configure default...](#)

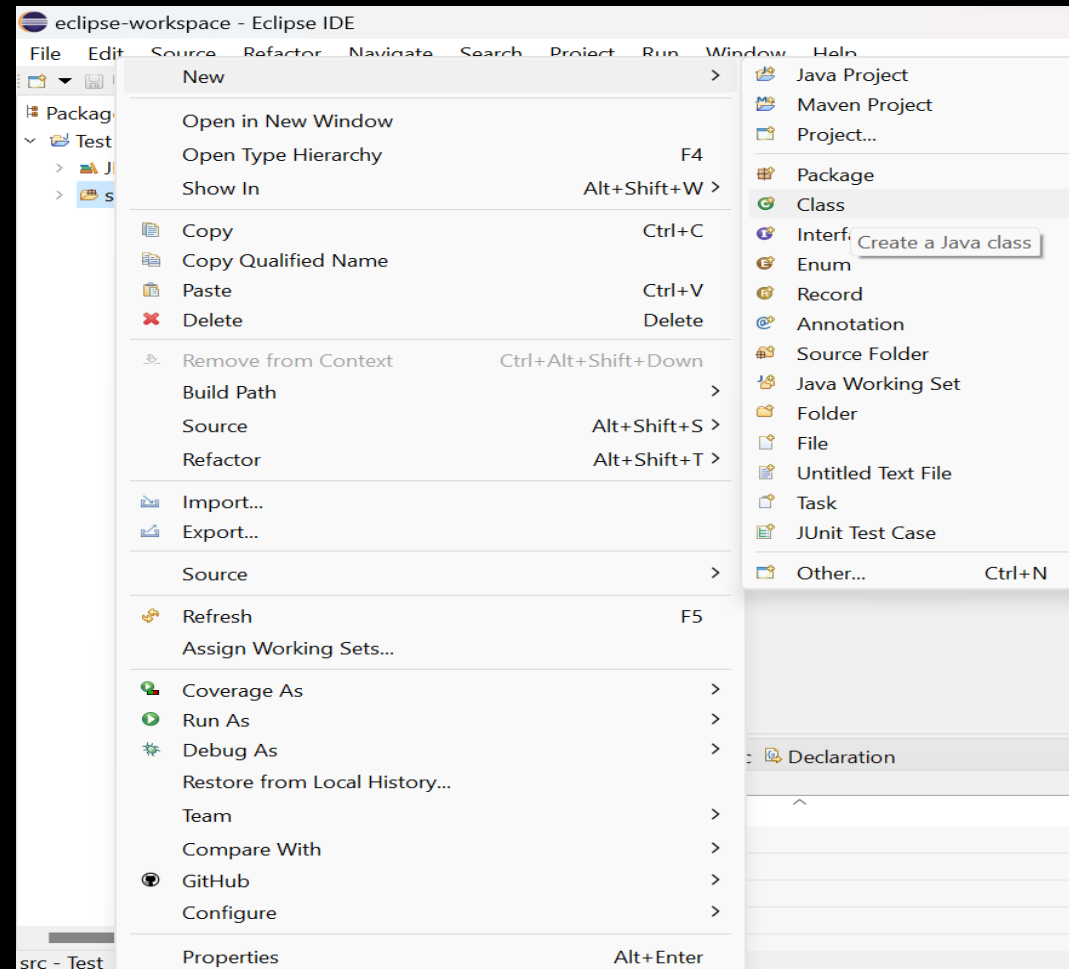
Working sets

Add project to working sets

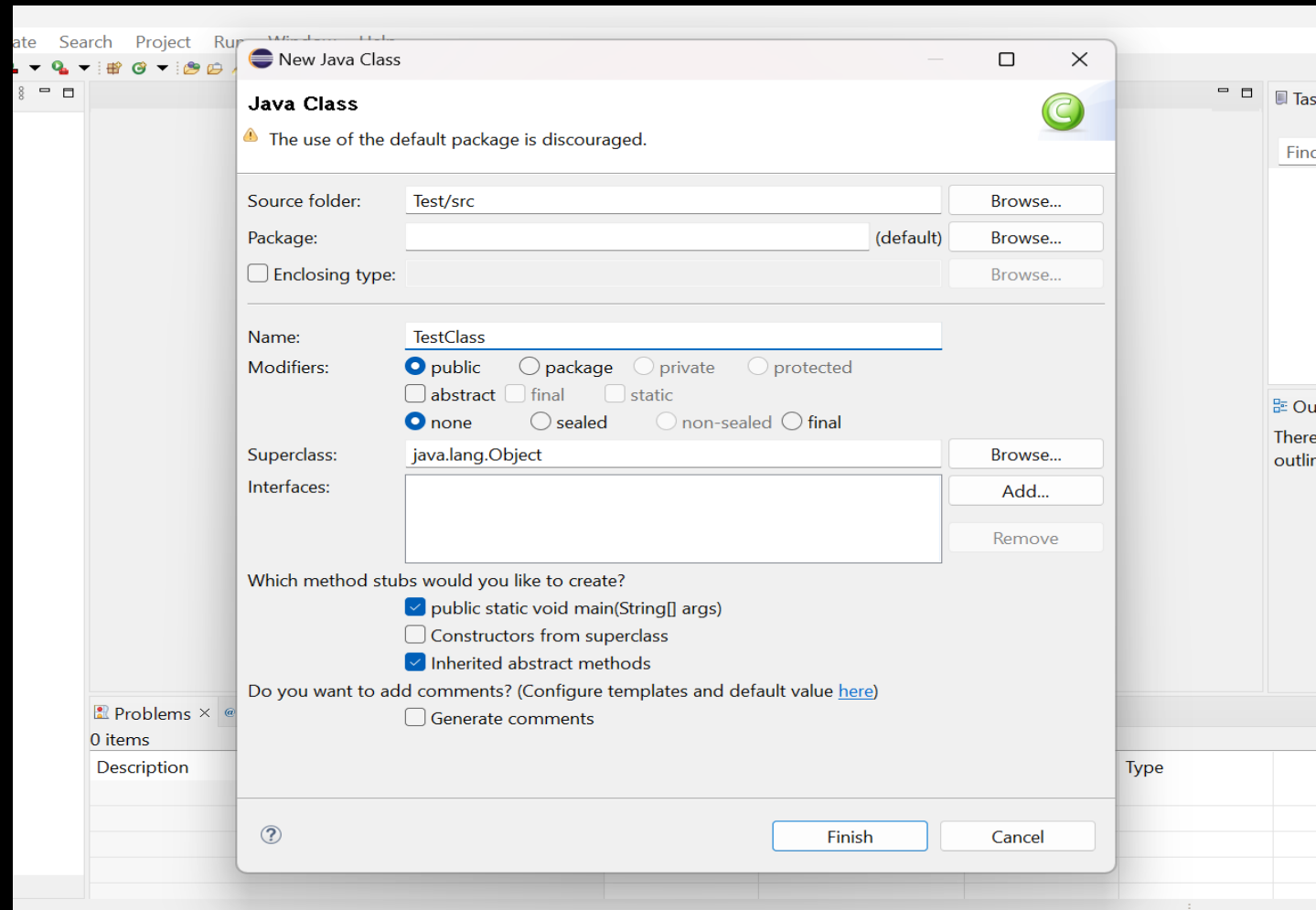
Ergebnis: Projekt "Test" wurde erstellt



Schritt 3: Projekt "Test" aufklappen -> Rechtsklick src -> New -> Class



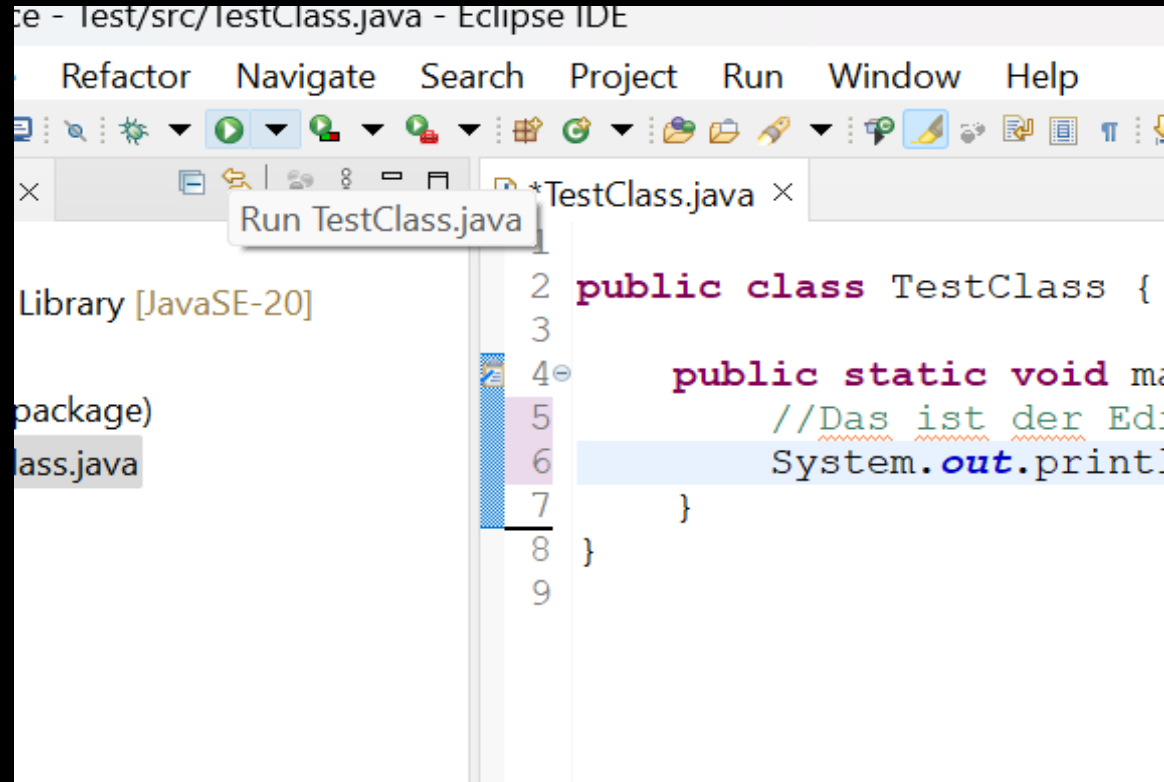
Schritt 4: Name der Klasse eingeben und "Finish" anklicken



Ergebnis: Editor mit Java-Code

```
*TestClass.java ×
1
2 public class TestClass {
3
4     public static void main(String[] args) {
5         //Das ist der Editor
6         System.out.println("Dieser Text wird in der Konsole ausgegeben");
7     }
8 }
9
```

Schritt 5: Auf Run klicken, um den Code im Editor auszuführen



The screenshot shows the Eclipse IDE interface. The title bar reads "Eclipse - test/src/testClass.java - Eclipse IDE". The menu bar includes "Refactor", "Navigate", "Search", "Project", "Run", "Window", and "Help". The toolbar contains various icons, with the "Run" icon (a green play button) highlighted. A tooltip above the Run icon says "Run TestClass.java". The editor window shows the following Java code:

```
1  
2 public class TestClass {  
3  
4     public static void main(String[] args) {  
5         //Das ist der Editor  
6         System.out.println("Hello World");  
7     }  
8 }  
9
```

Ergebnis: Konsole erzeugt eine Ausgabe



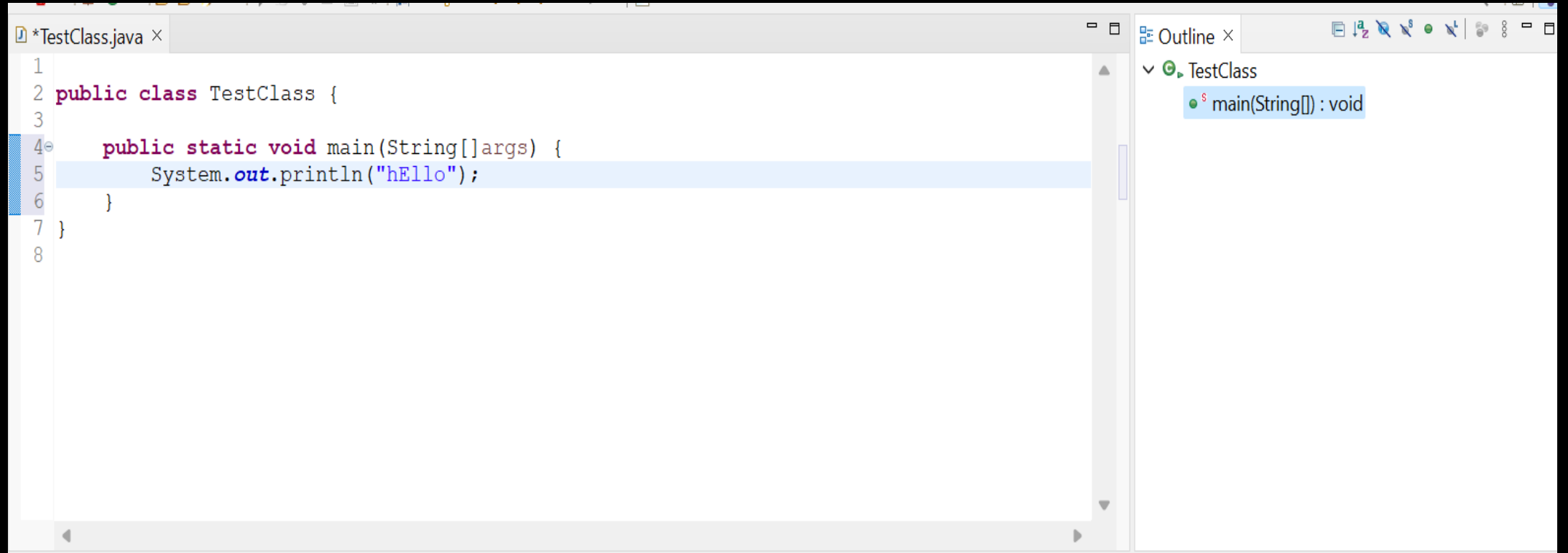
The screenshot shows an IDE window with a Java source file named 'TestClass.java' and a console window below it. The source code is as follows:

```
1  
2 public class TestClass {  
3  
4     public static void main(String[] args) {  
5         //Das ist der Editor  
6         System.out.println("Dieser Text wird in der Konsole ausgegeben");  
7     }  
8 }  
9
```

The console window shows the output of the program:

```
<terminated> TestClass [Java Application] C:\Users\samo1\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_20.0.2.v20230801-2057\jre\bin\javaw.exe (04.10.2023, 20:00:00)  
Dieser Text wird in der Konsole ausgegeben
```

Die Outline View stellt die Struktur der im Editor geöffneten Klasse



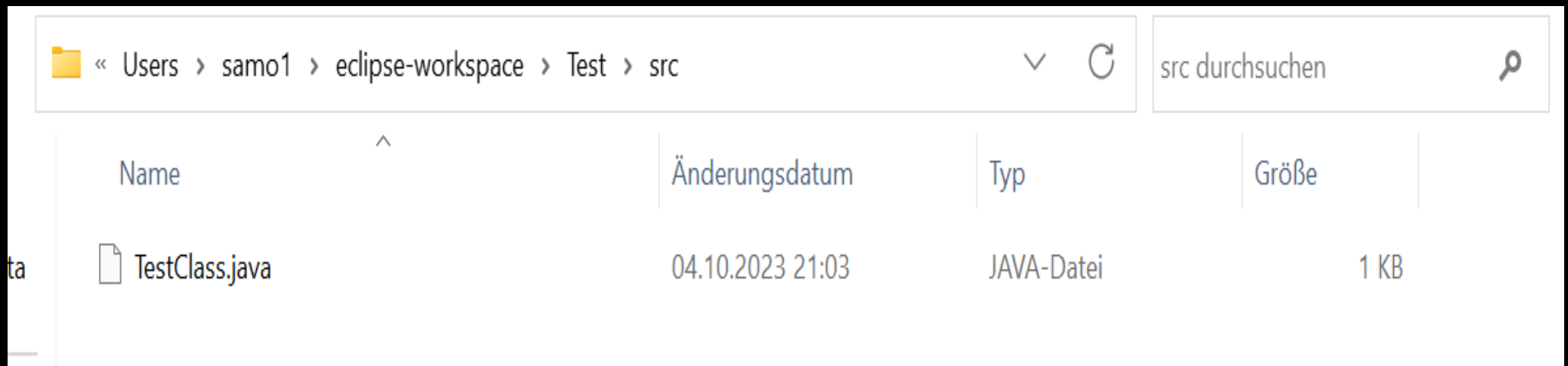
The image shows a screenshot of an IDE with two panels. The left panel is a code editor showing the following Java code:

```
1
2 public class TestClass {
3
4     public static void main(String[] args) {
5         System.out.println("hEllo");
6     }
7 }
8
```

The right panel is the Outline View, showing the structure of the class:

- TestClass
 - main(String[]) : void

Ergebnis: Projekt im Eclipse-Workspace angelegt

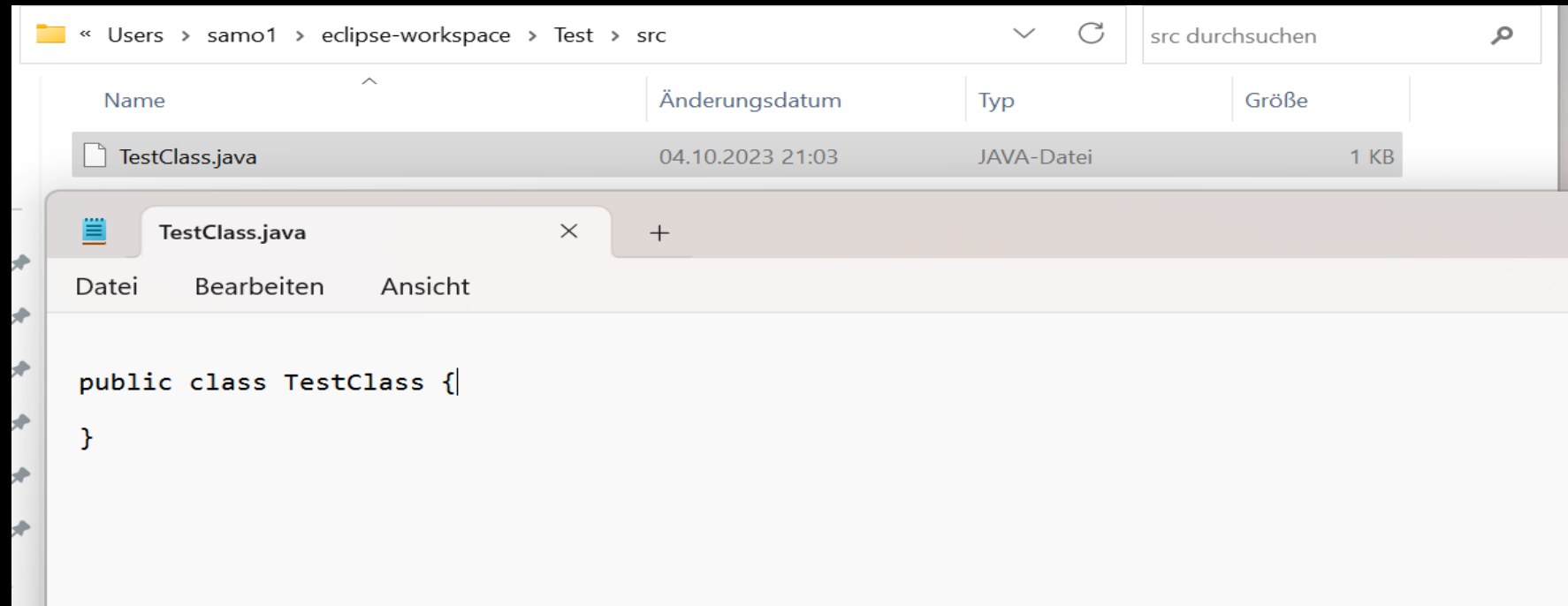


The screenshot shows a file explorer window with the following details:

- Path: « Users » samo1 » eclipse-workspace » Test » src
- Search bar: src durchsuchen
- Table of contents:

| Name | Änderungsdatum | Typ | Größe |
|----------------|------------------|------------|-------|
| TestClass.java | 04.10.2023 21:03 | JAVA-Datei | 1 KB |

Ergebnis: Projekt im Editor



The screenshot displays an IDE interface. At the top, a breadcrumb navigation path shows the current location: « Users > samo1 > eclipse-workspace > Test > src. To the right of the path is a search bar containing the text 'src durchsuchen' and a magnifying glass icon.

Below the path is a table listing files in the current directory:

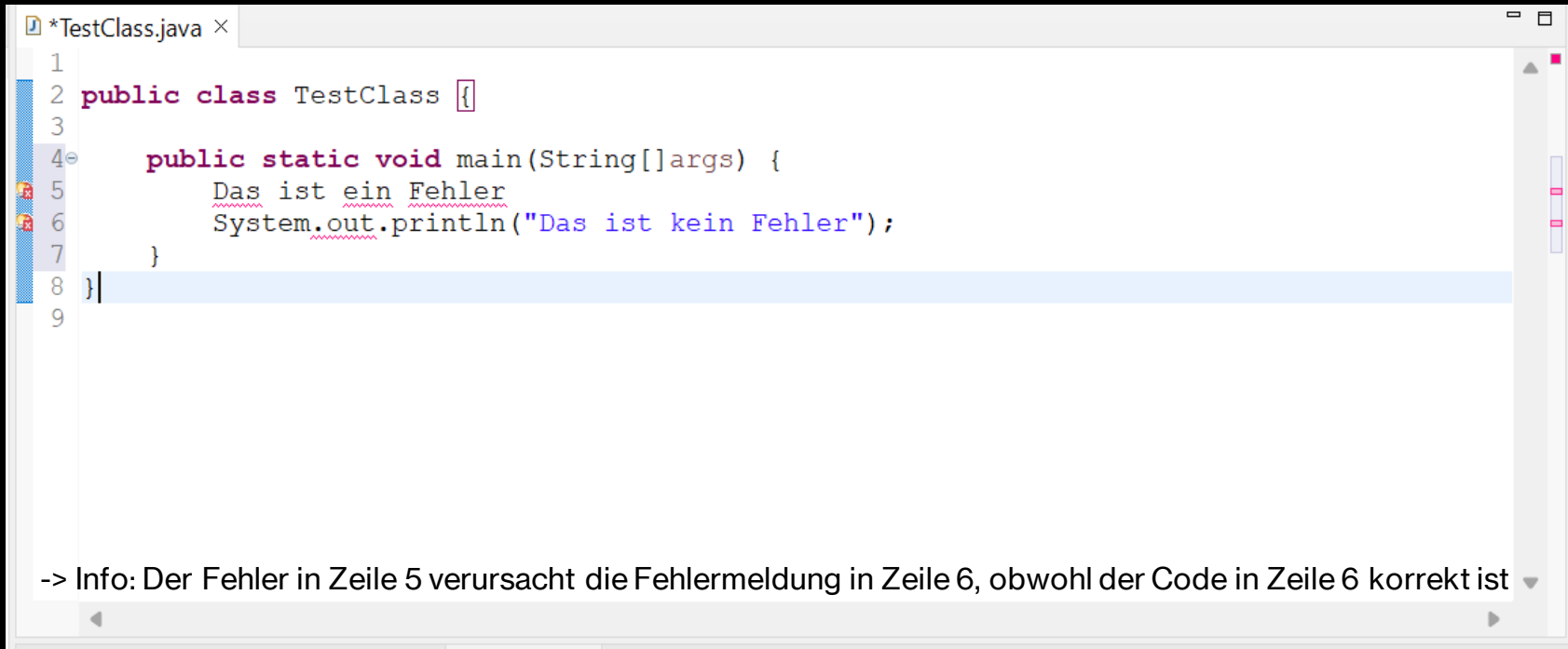
| Name | Änderungsdatum | Typ | Größe |
|----------------|------------------|------------|-------|
| TestClass.java | 04.10.2023 21:03 | JAVA-Datei | 1 KB |

The main editor area shows a single tab titled 'TestClass.java'. Below the tab is a menu bar with the options 'Datei', 'Bearbeiten', and 'Ansicht'. The editor contains the following Java code:

```
public class TestClass {  
}
```

Rote Fehlermeldung

- Ausführen des Codes wird verhindert
- Syntaktische Fehler, Fehlende oder falsch geschlossene Klammern, Nicht deklarierte Variablen oder Klassen



```
1
2 public class TestClass {}
3
4     public static void main(String[] args) {
5         Das ist ein Fehler
6         System.out.println("Das ist kein Fehler");
7     }
8 }
9
```

-> Info: Der Fehler in Zeile 5 verursacht die Fehlermeldung in Zeile 6, obwohl der Code in Zeile 6 korrekt ist

Gelbe Fehlermeldung

- Unbenutzte Variablen oder Methoden
- Veraltete oder nicht empfohlene Funktionen
- Potenzielle Null-Zeiger-Ausnahmen

```
*TestClass.java ×
1
2 public class TestClass {
3
4     public static void main(String[] args) {
5
6         int zahl1= 1;
7         int zahl2 = 2;
8         int zahl3 = 3;
9         System.out.println(zahl1 + zahl2);
10    }
11 }
12
```