

Why you NEED to learn :



1. Top 3 most popular languages
2. Extremely flexible
(businesses, web apps, android apps, games)
3. Easy to find a job as a developer
(entry salary \$70,474 -Glassdoor)

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High-level language
(for humans)



source code

...print("Hi mom!")

.java file extension



object code
(machine code)

compile = transform source code to machine code

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Low-level language
(for computers)



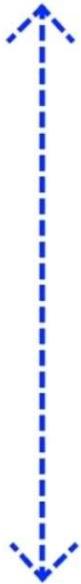
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...print("Hi mom!")
.java file extension



compile = transform source code to machine code



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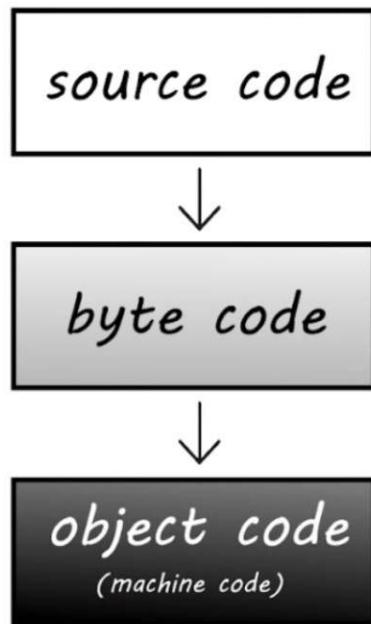




High-level language
(for humans)



Low-level language
(for computers)



`...print("Hi mom!")`

`.java file extension`

`cross-platform (portable)`

`.class file extension`



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High-level language
(for humans)



Low-level language
(for computers)



source code



compiler

...print("Hi mom!")

.java file extension

translates as part of the compilation process

byte code



J·V·M

cross-platform (portable)

.class file extension

translates as part of the run process

object code

(machine code)

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Useful Languages

Main - Notepad

File Edit Format View Help

```
public class Main {  
    public static void main(String[] args){  
        System.out.println("Hello World!");  
    }  
}
```

Ln 1, Col 1

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Windows (CRLF)

UTF-8



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High-level language

Main - Notepad

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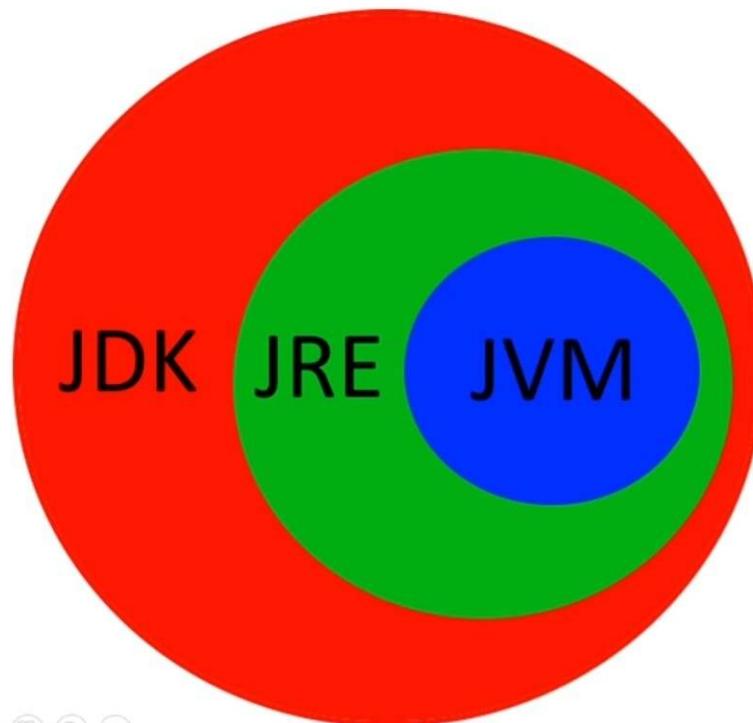
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- JDK - (Java Development Kit)
developers tools
- JRE - (Java Runtime Env.)
libraries & toolkits
- JVM - (Java Virtual Machine)
runs java programs

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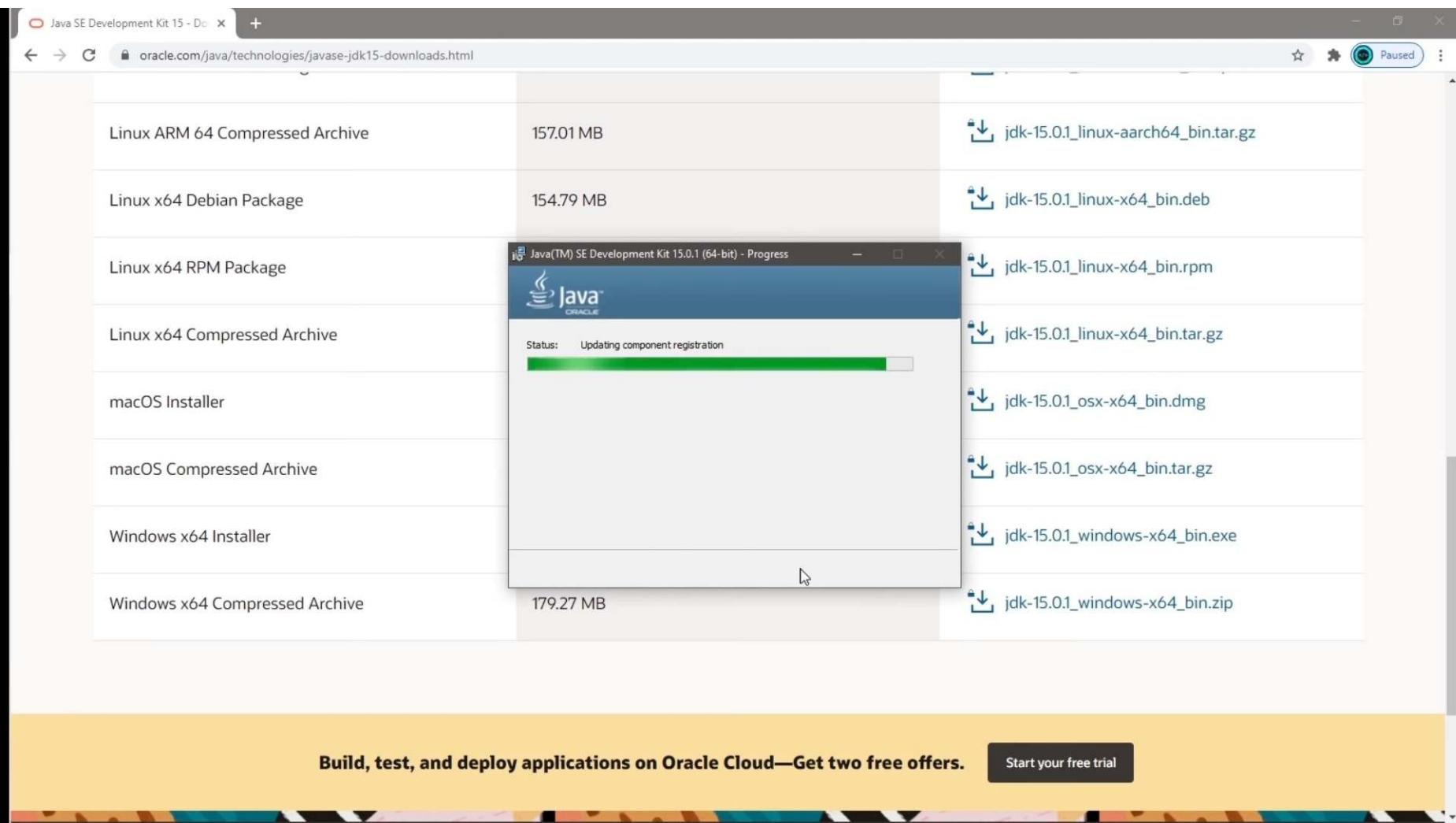
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I - Integrated

D - Development

E - Environment

(software that helps us write software)



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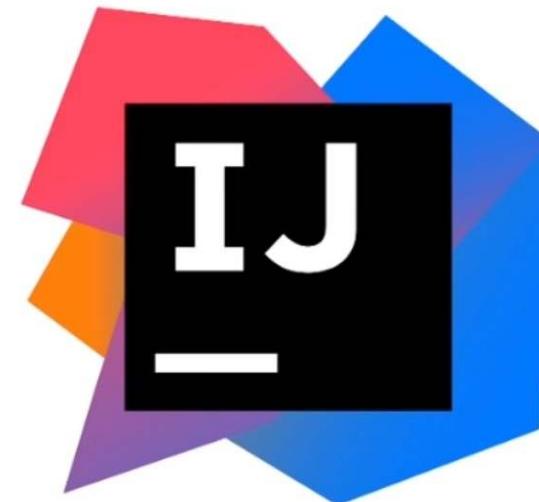


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*where can I get an **IDE**?*



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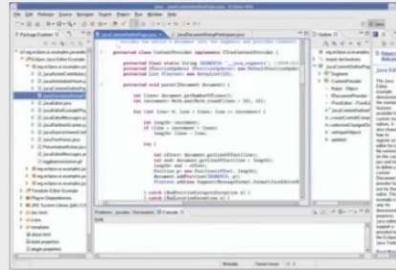
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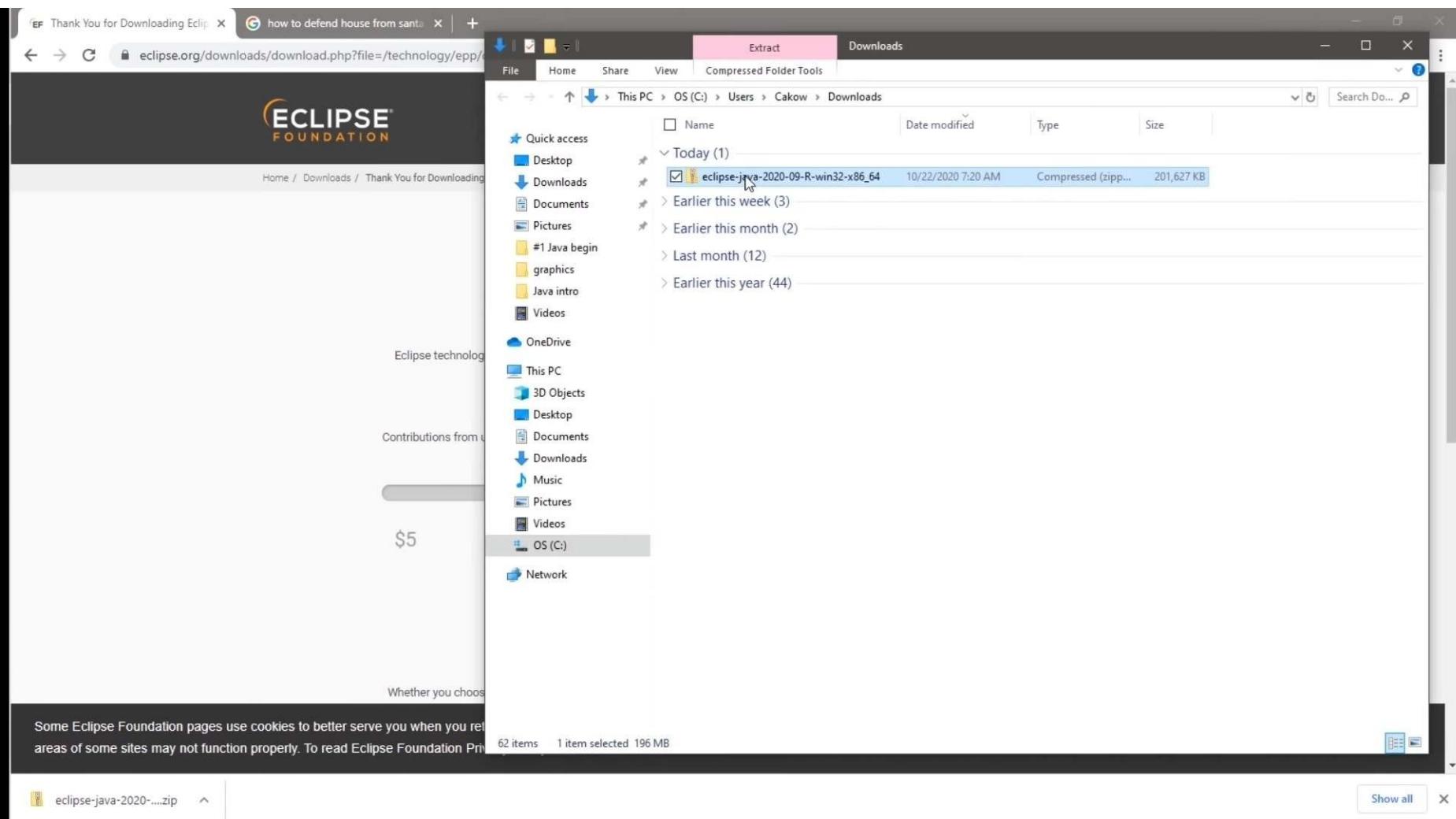
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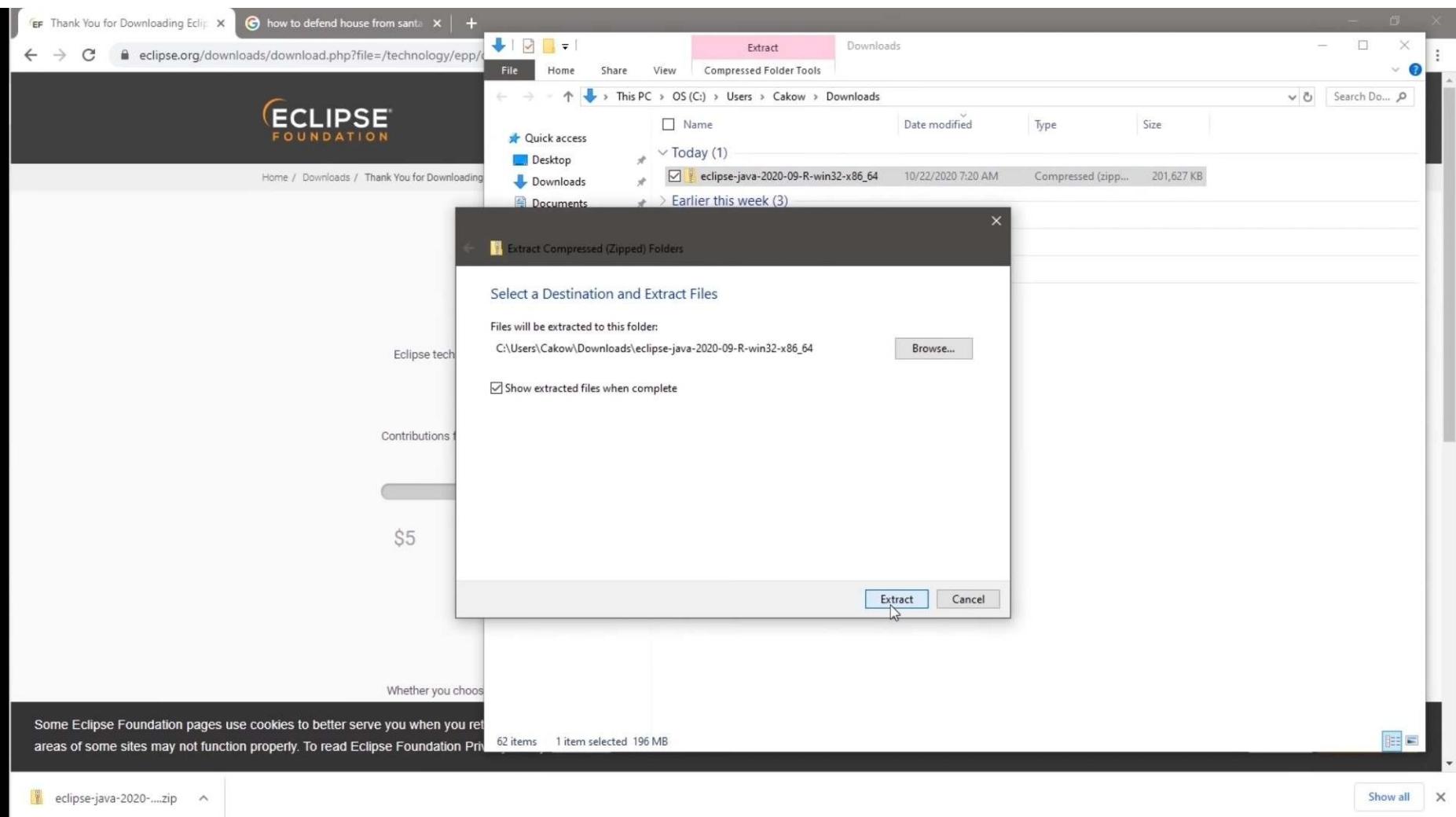
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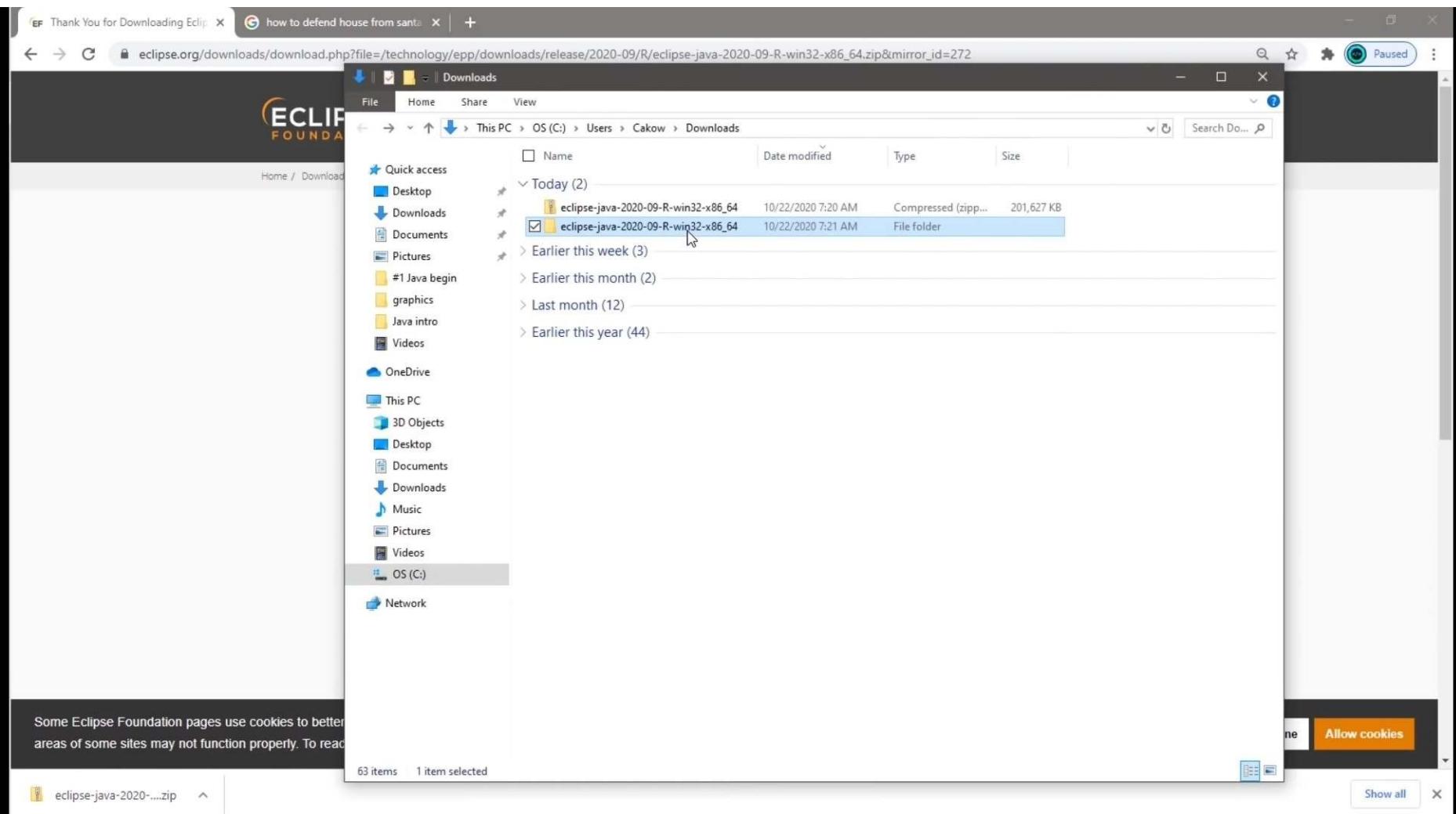
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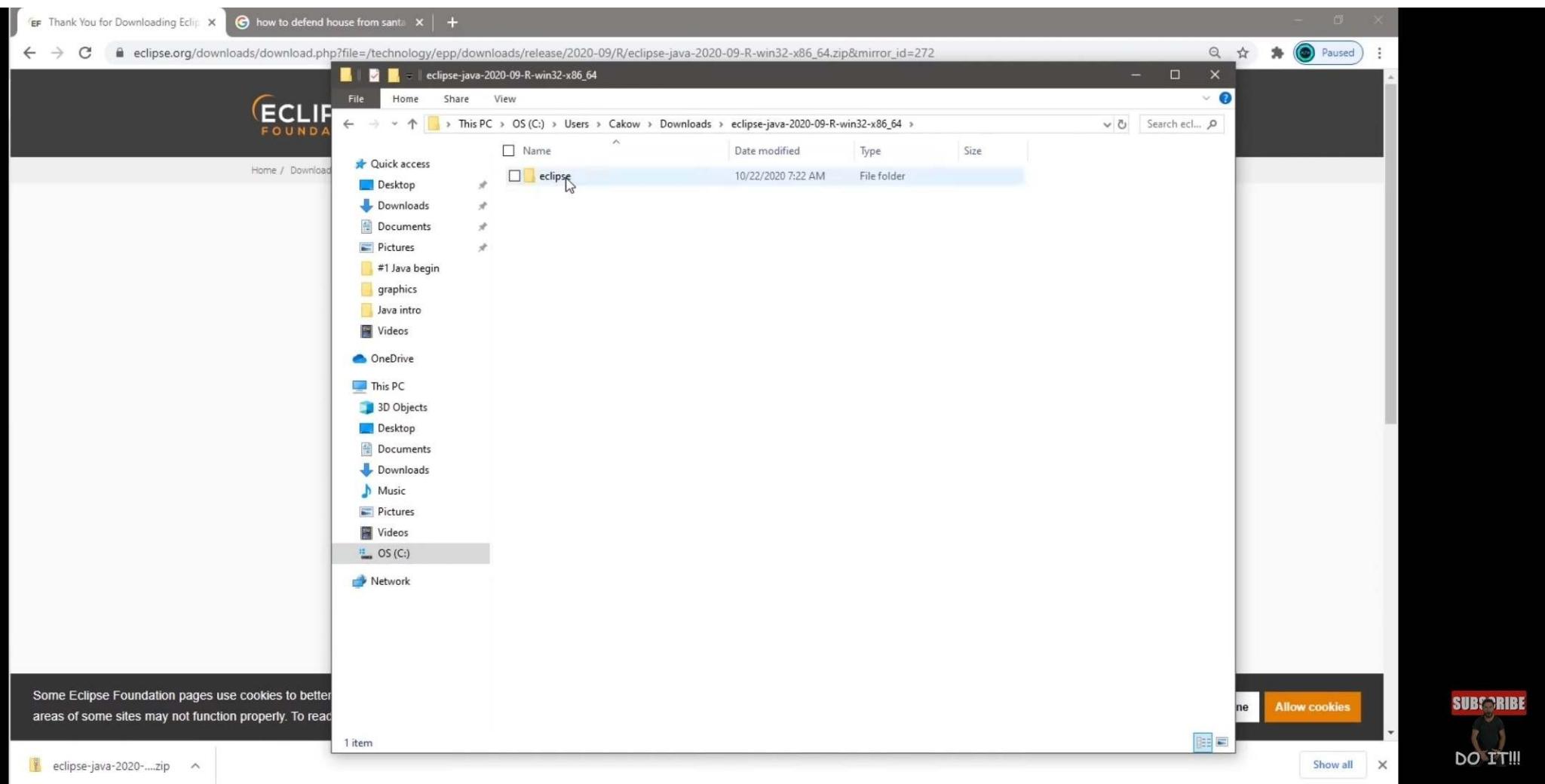
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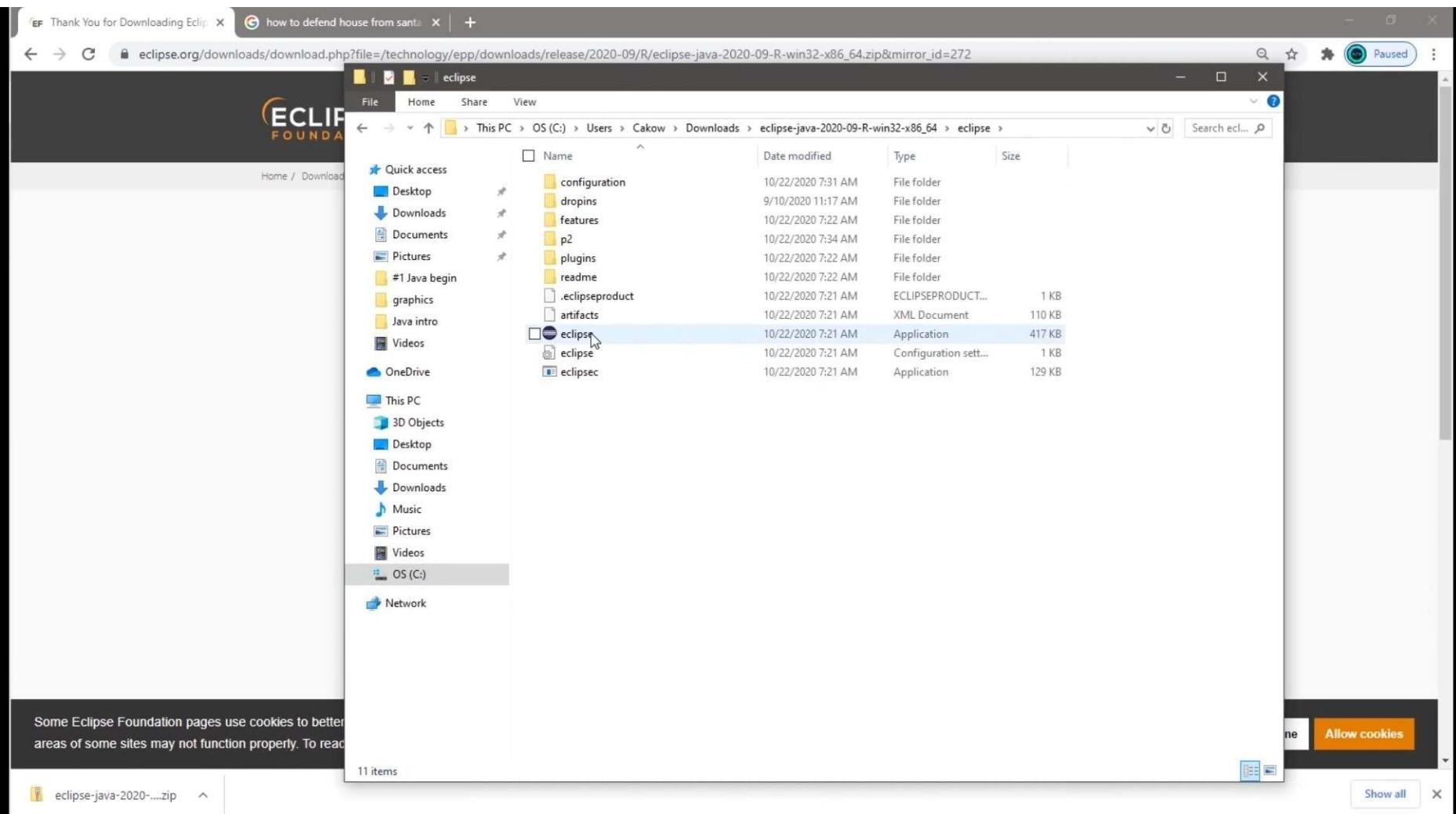
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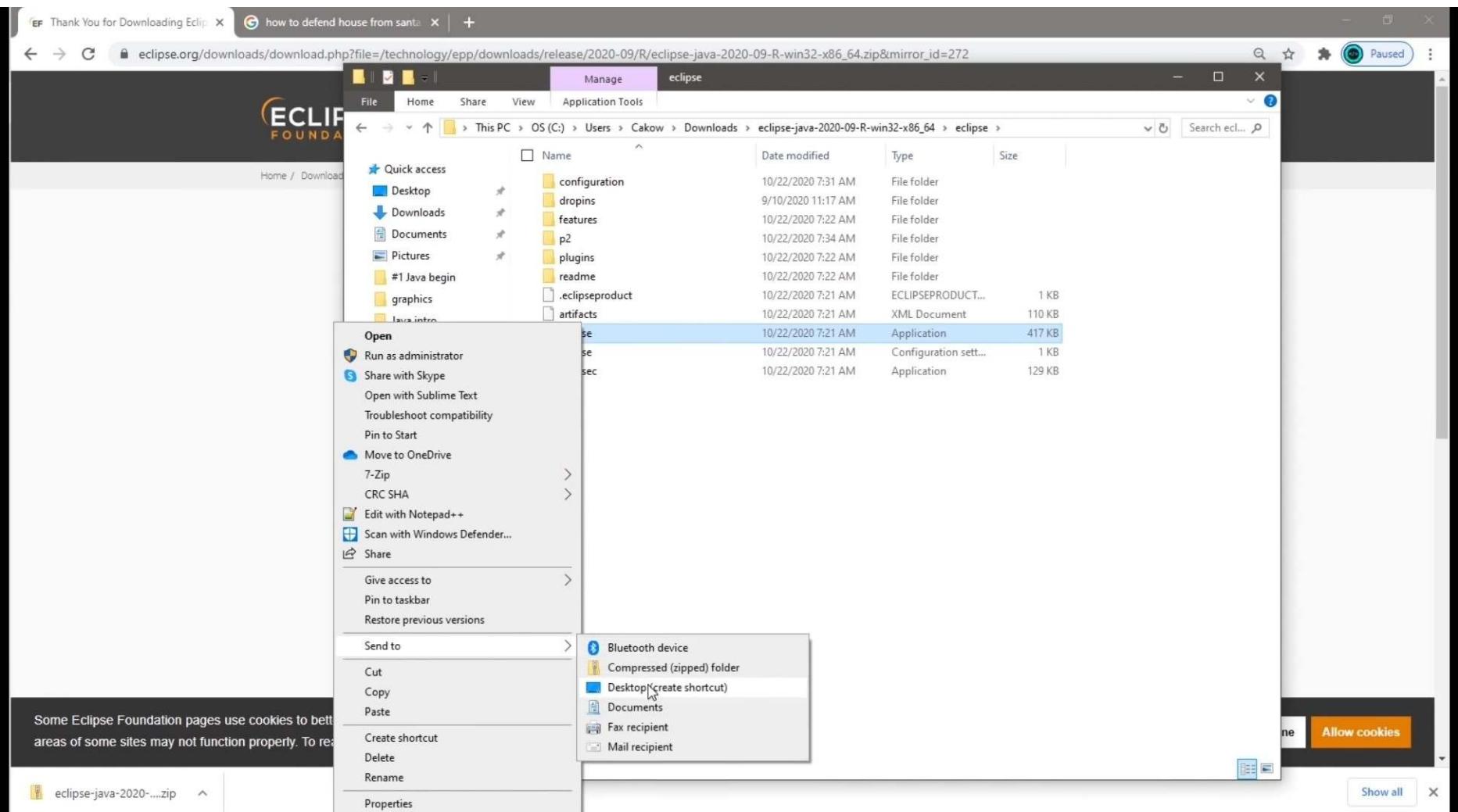


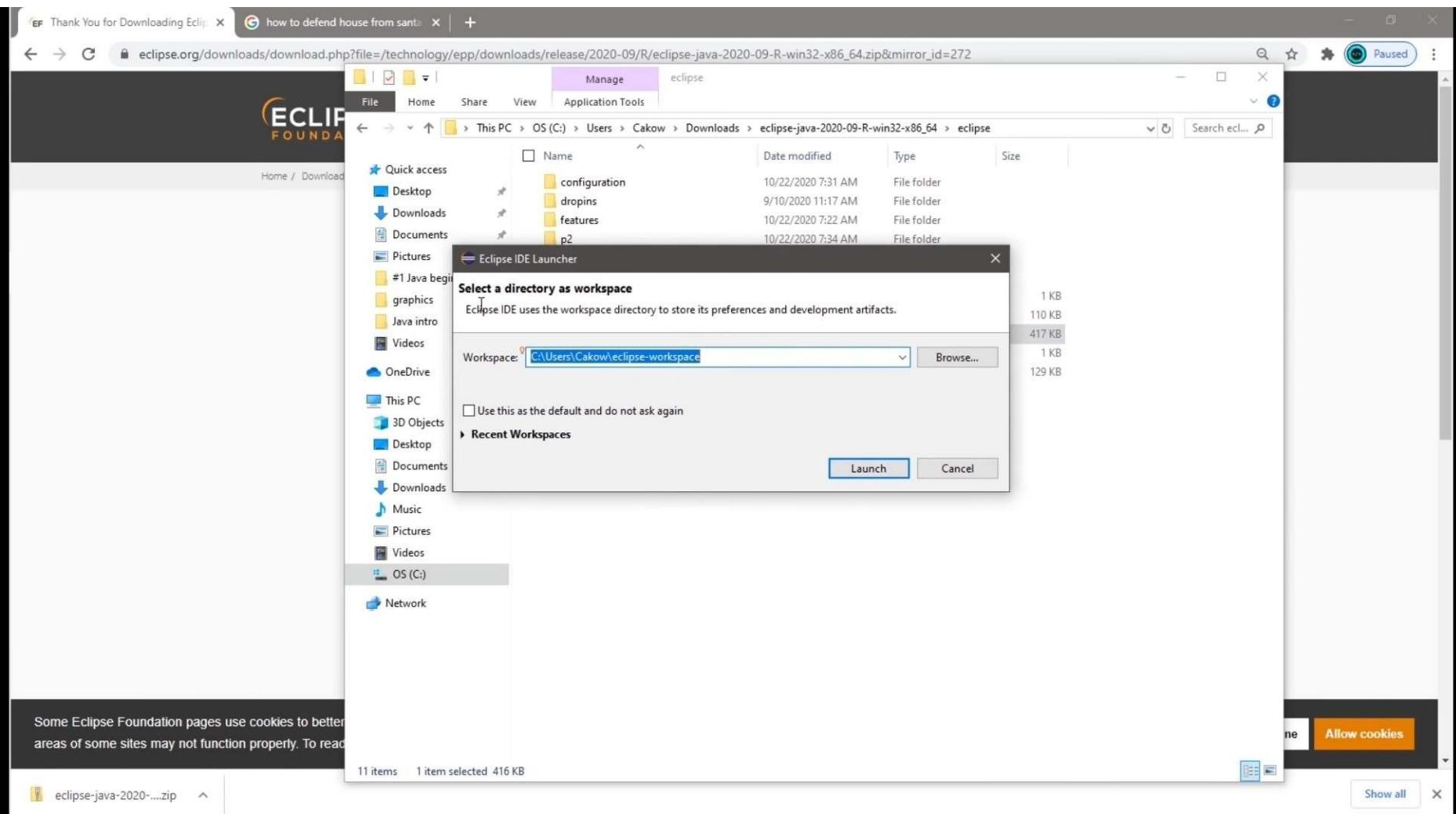


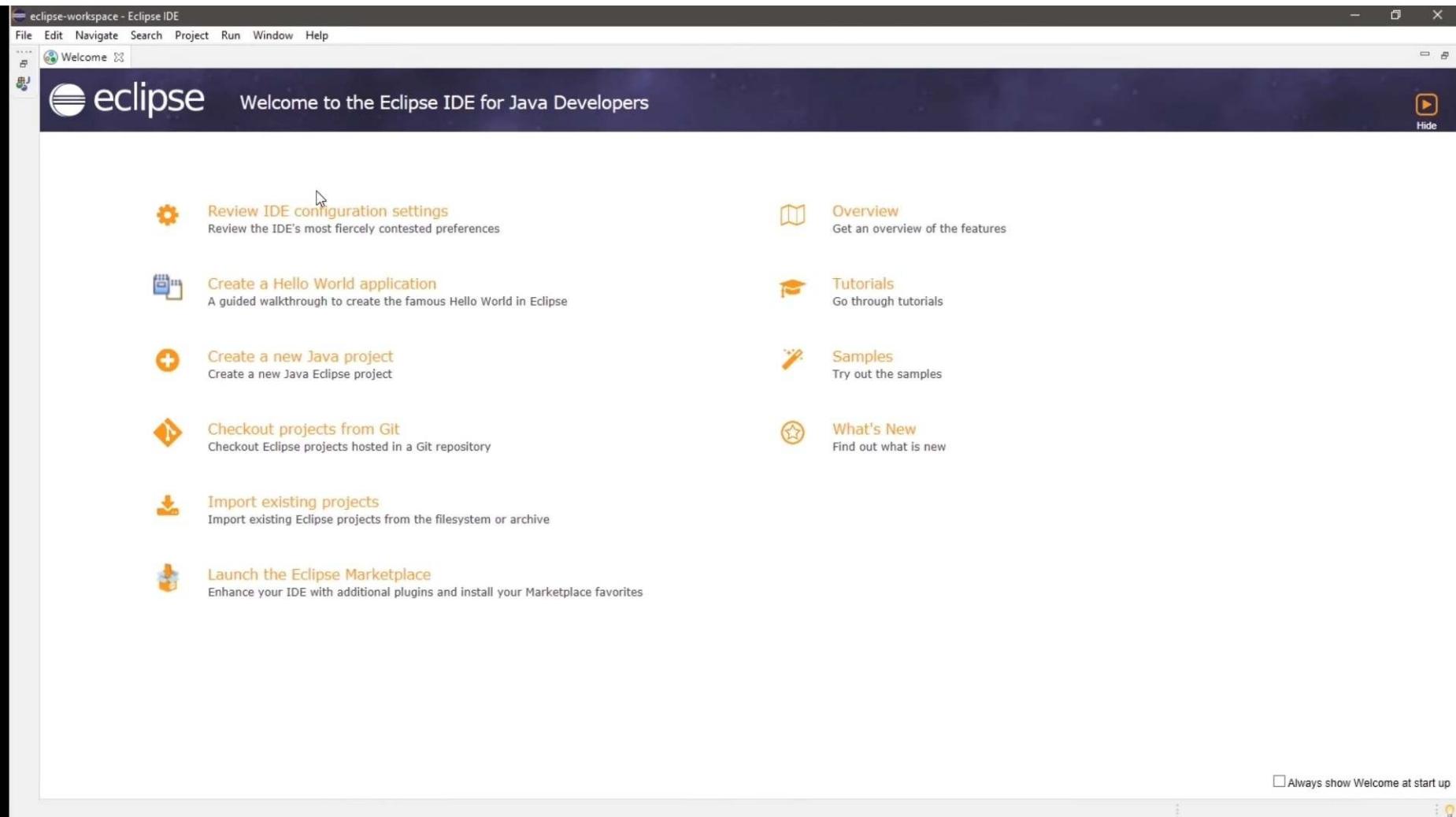


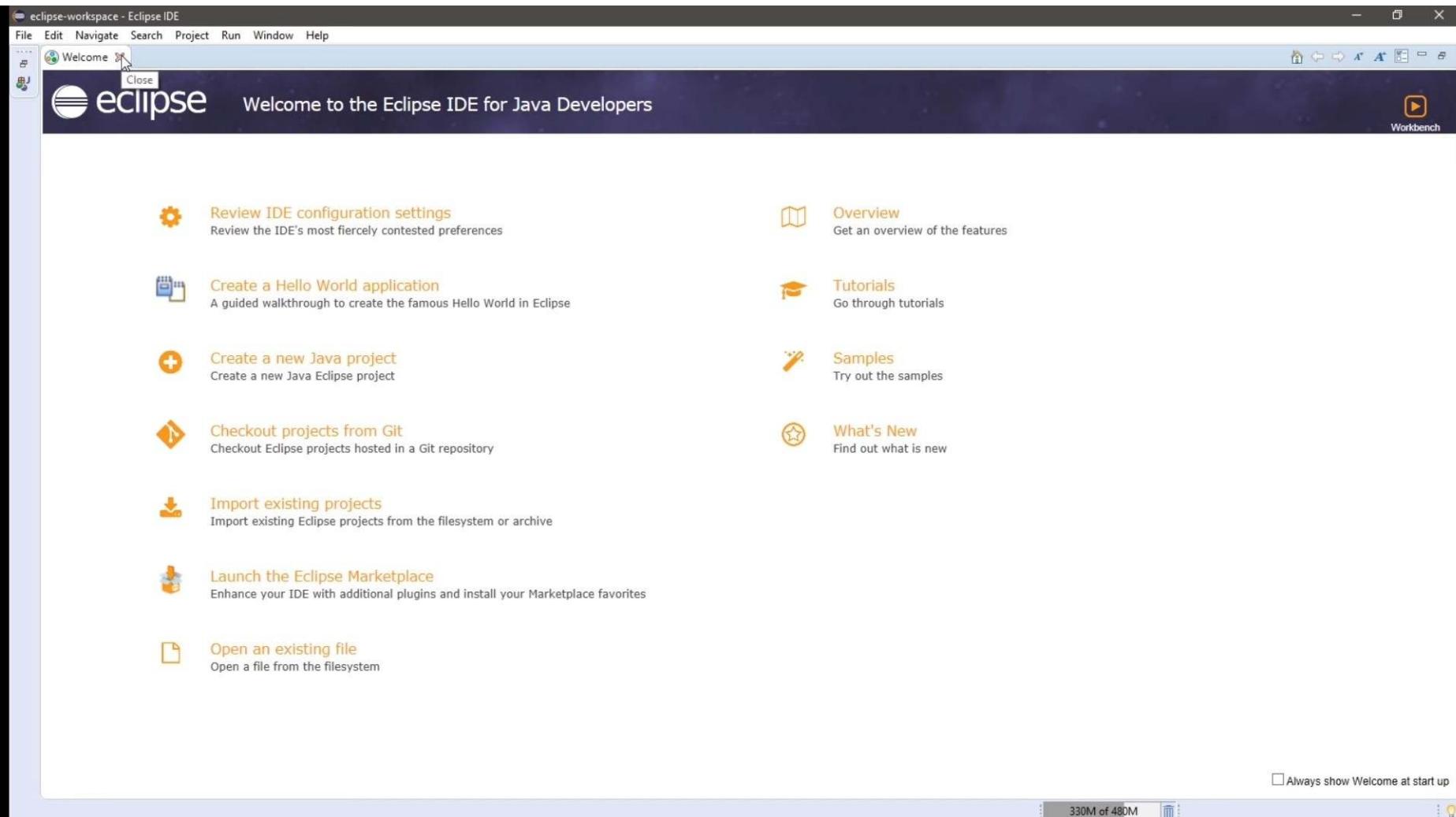


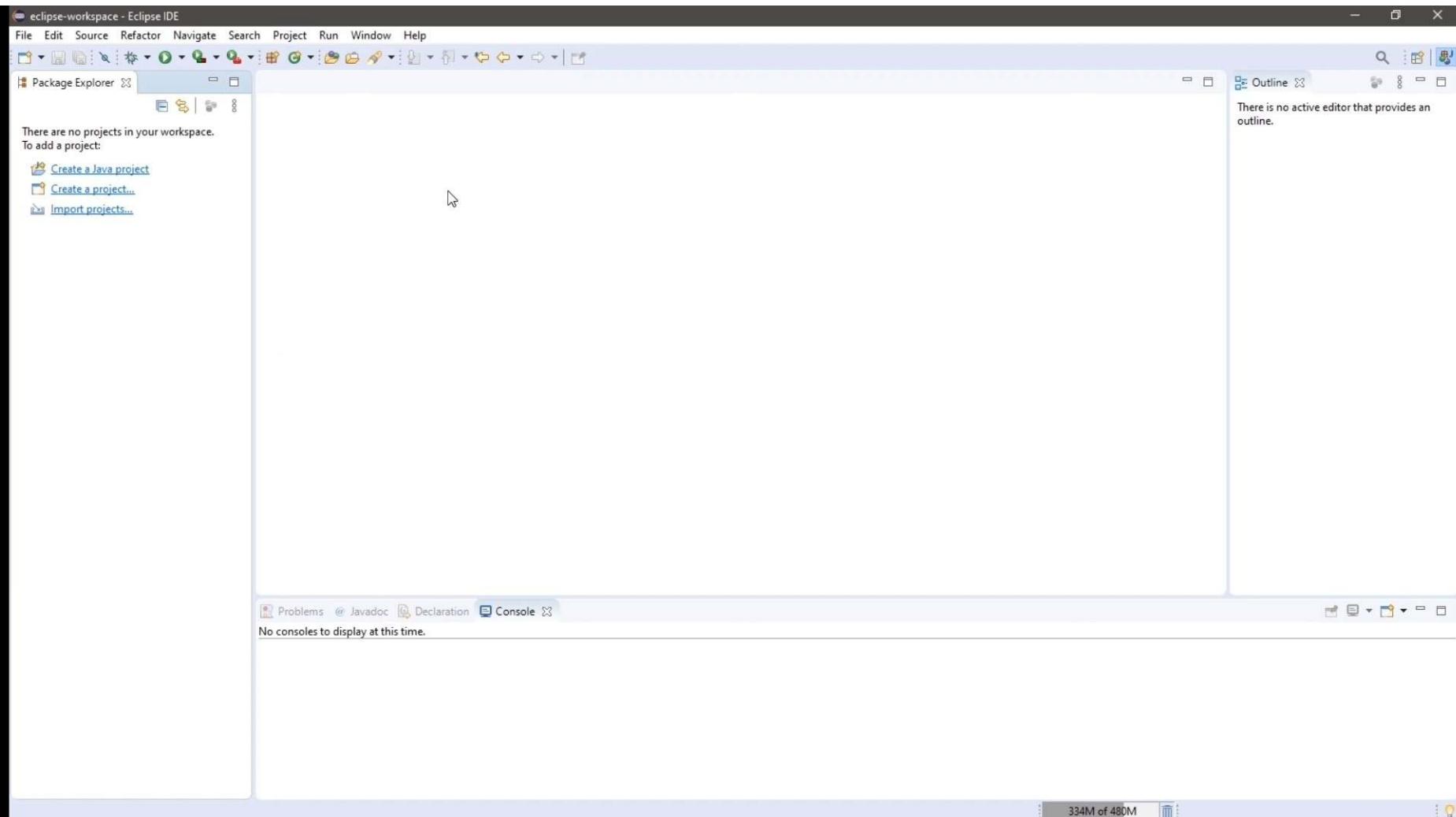


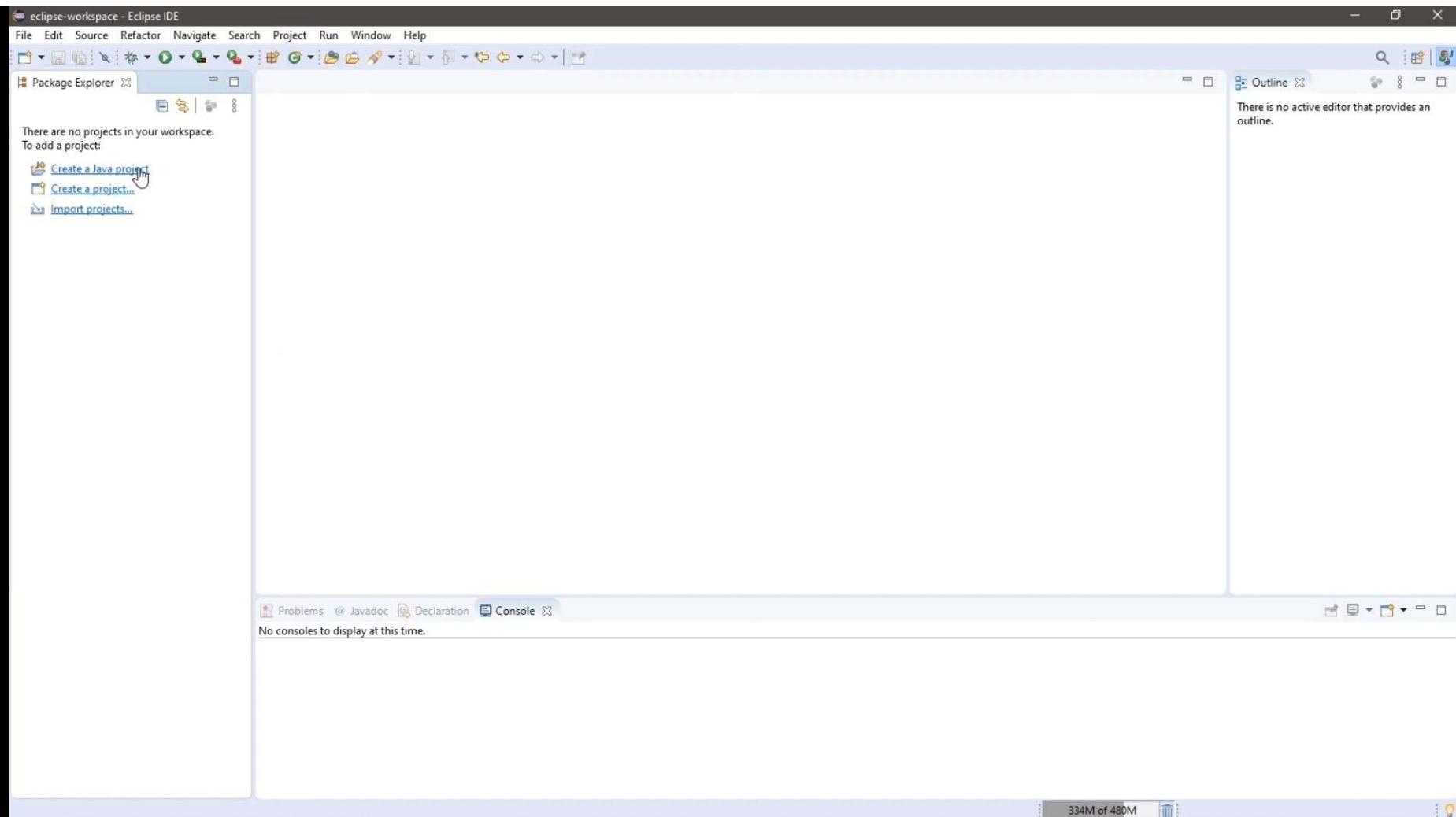


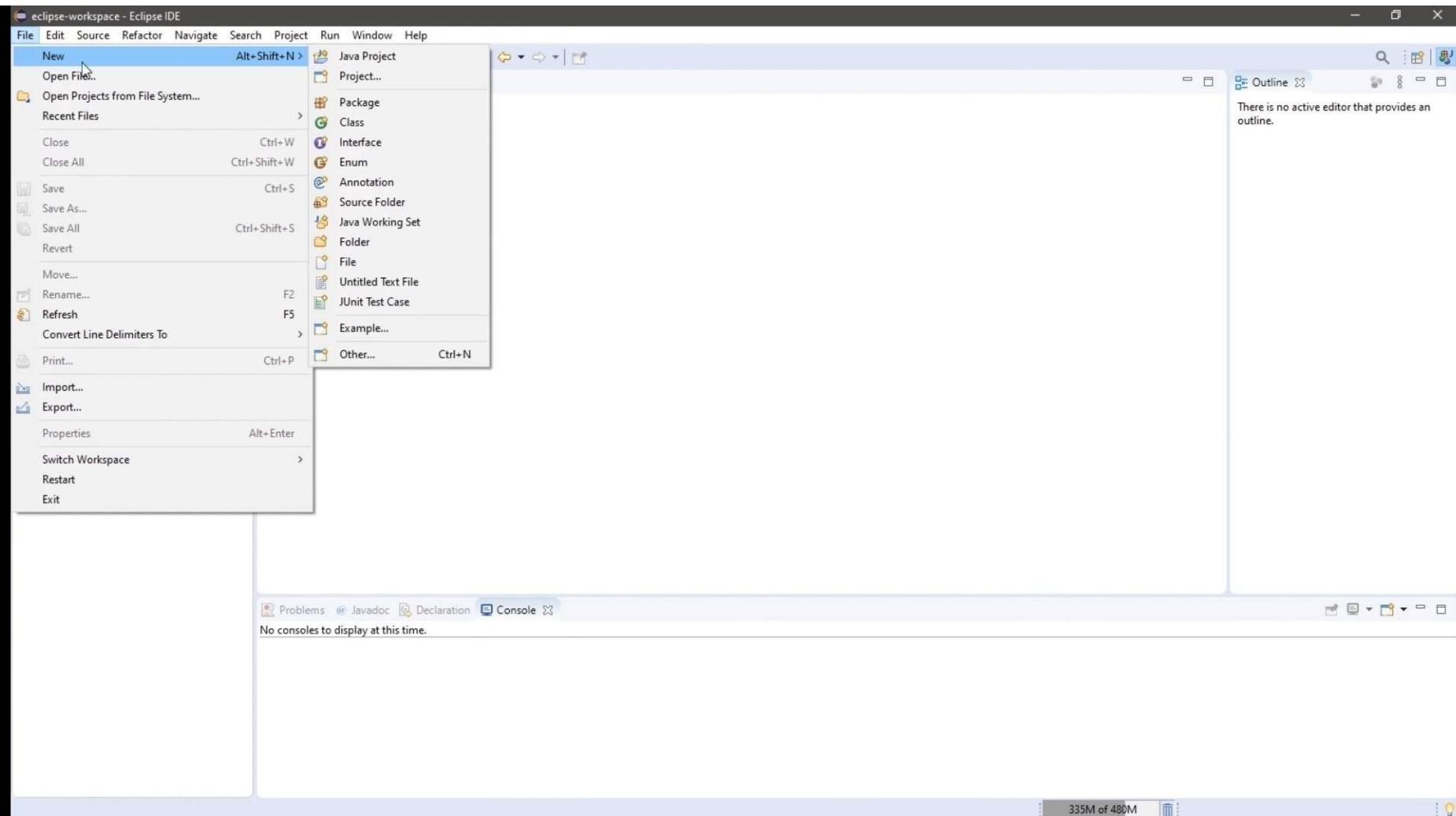


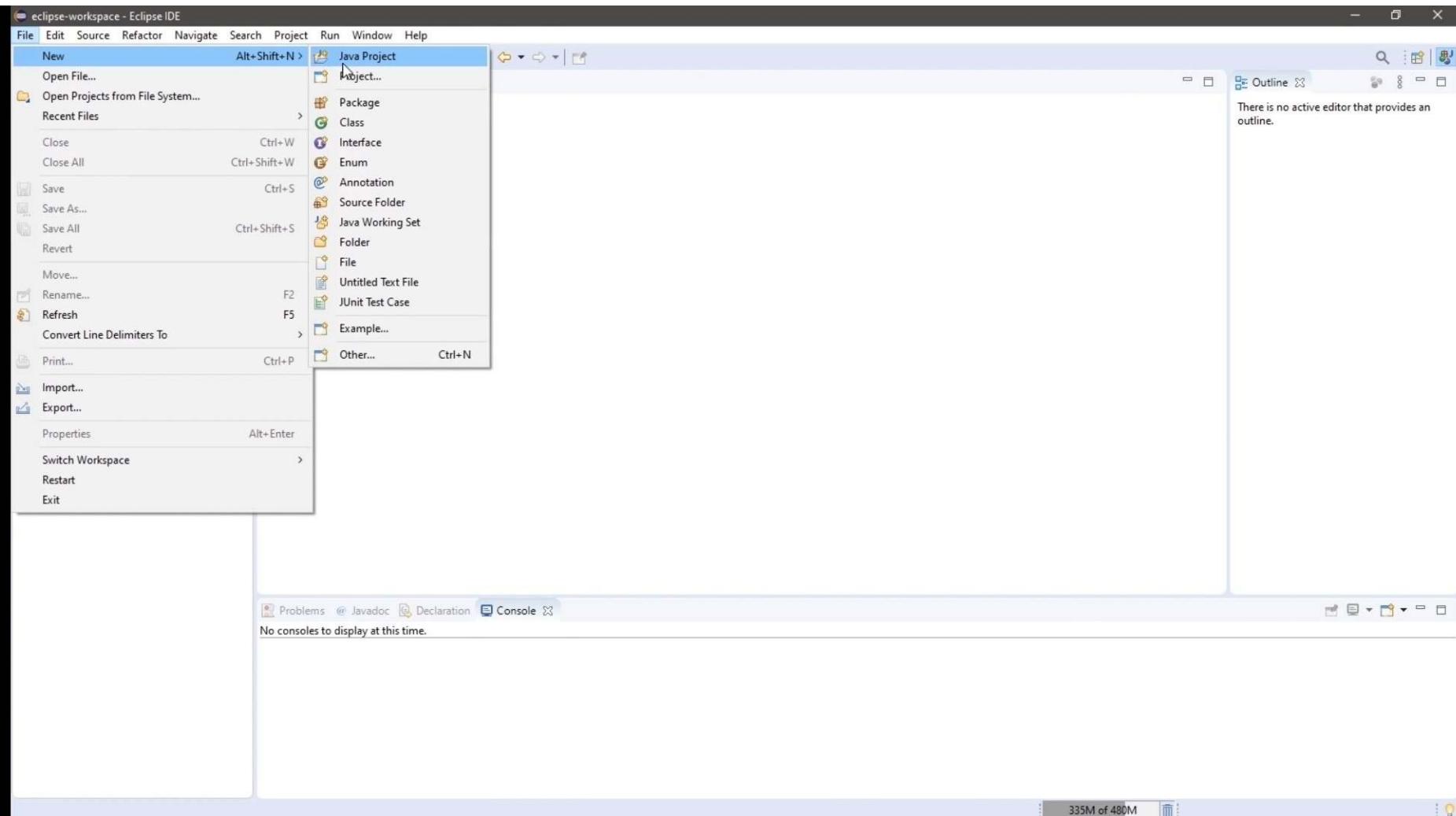


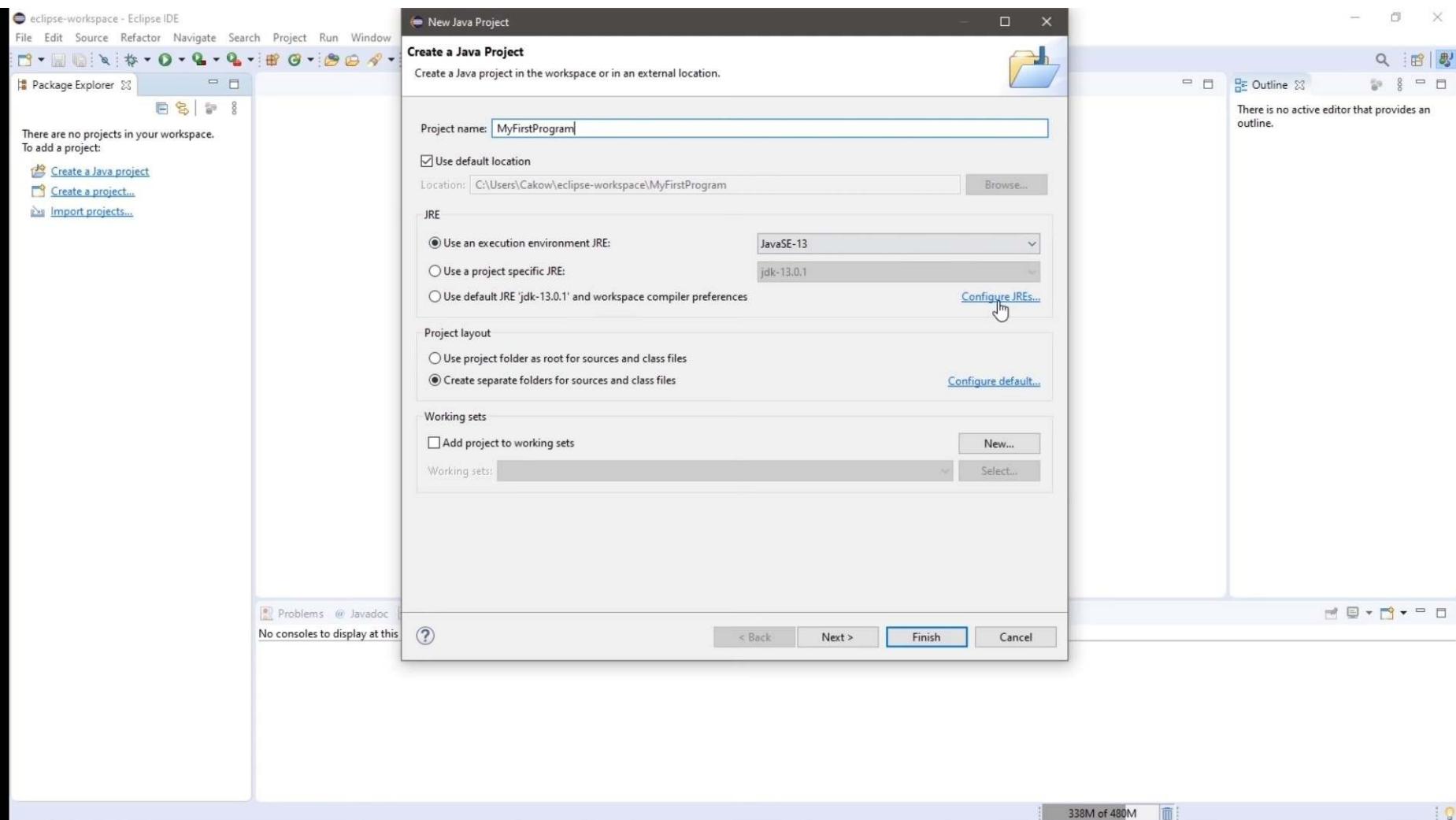


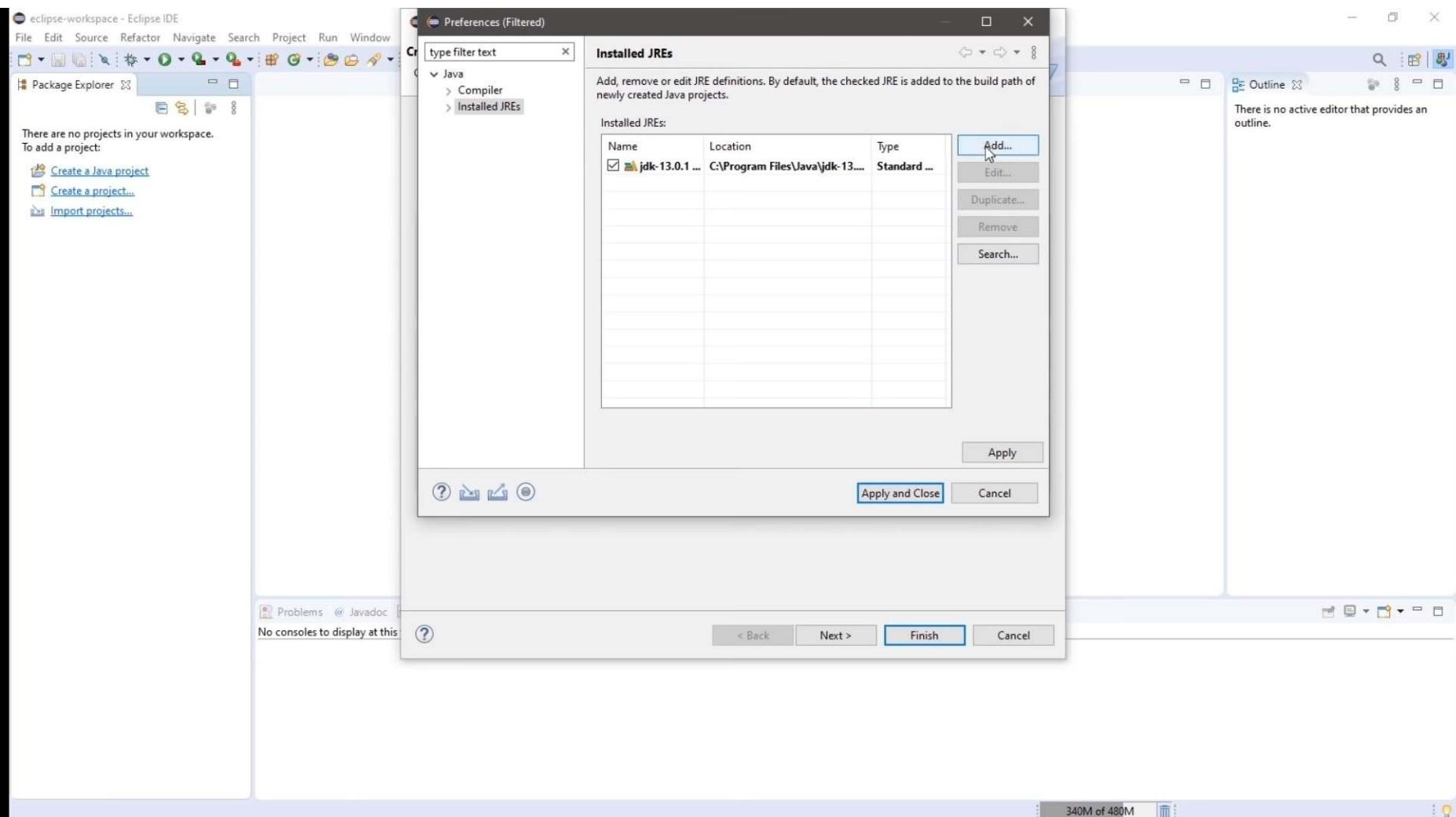


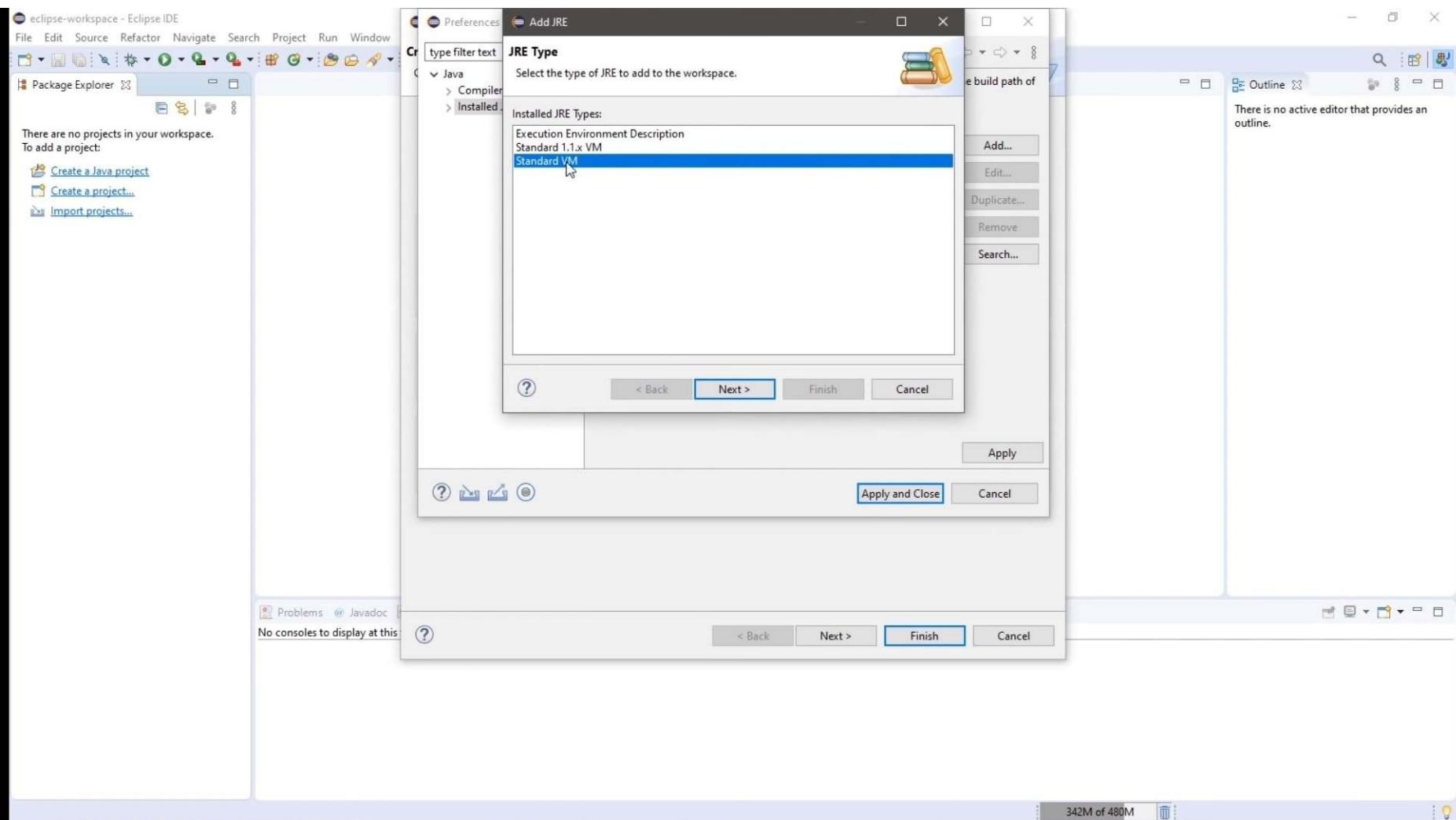


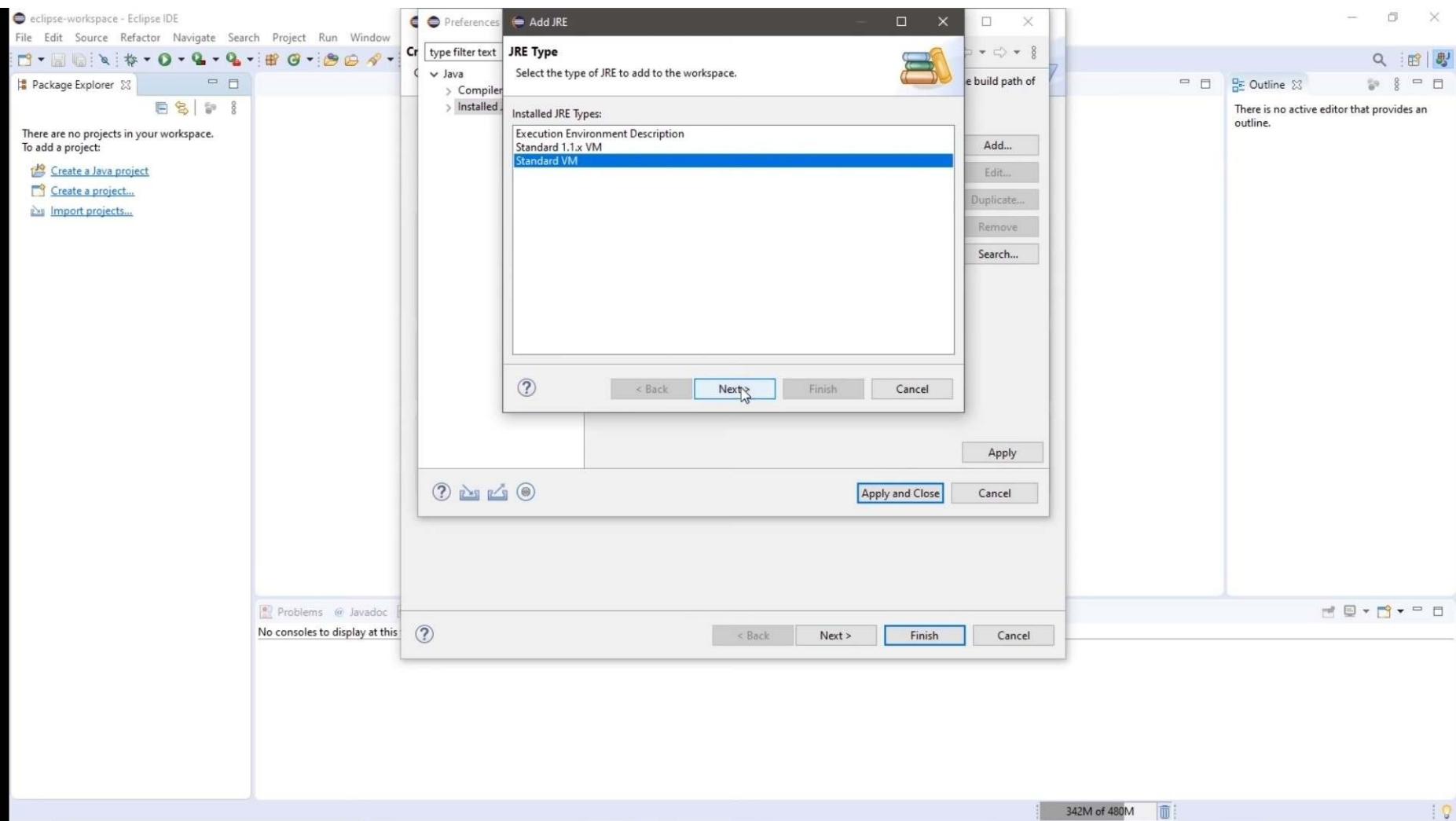


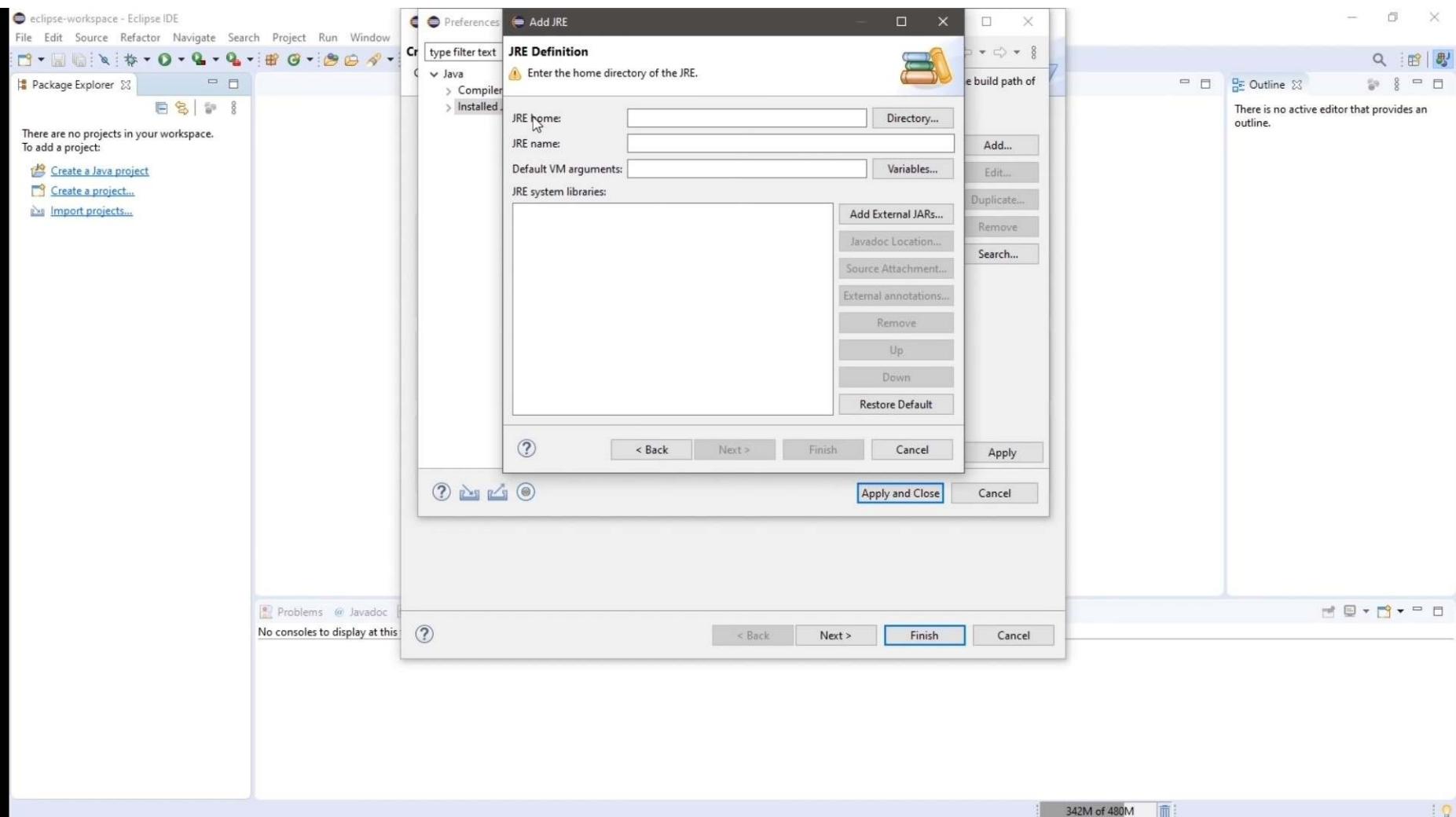


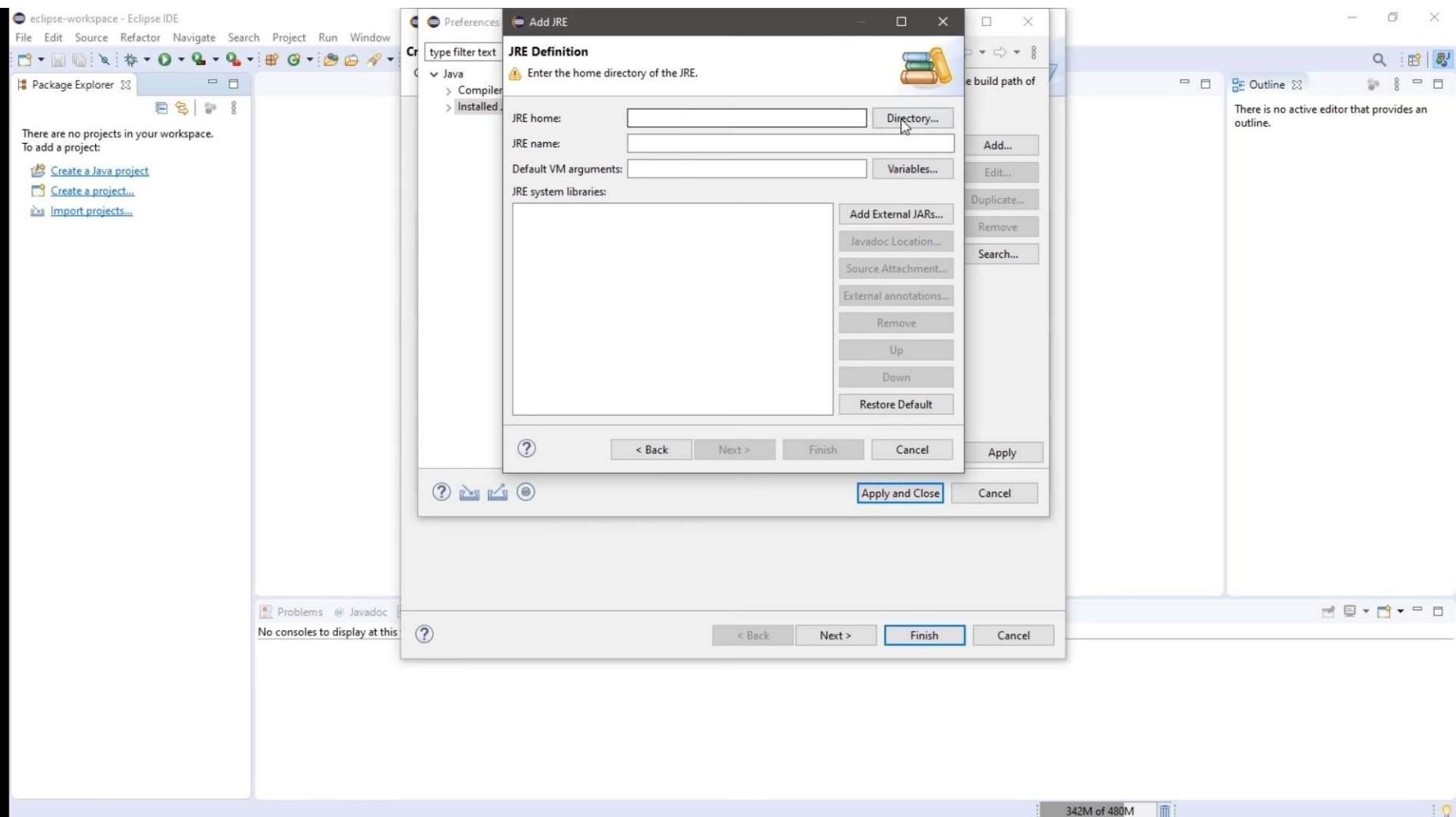


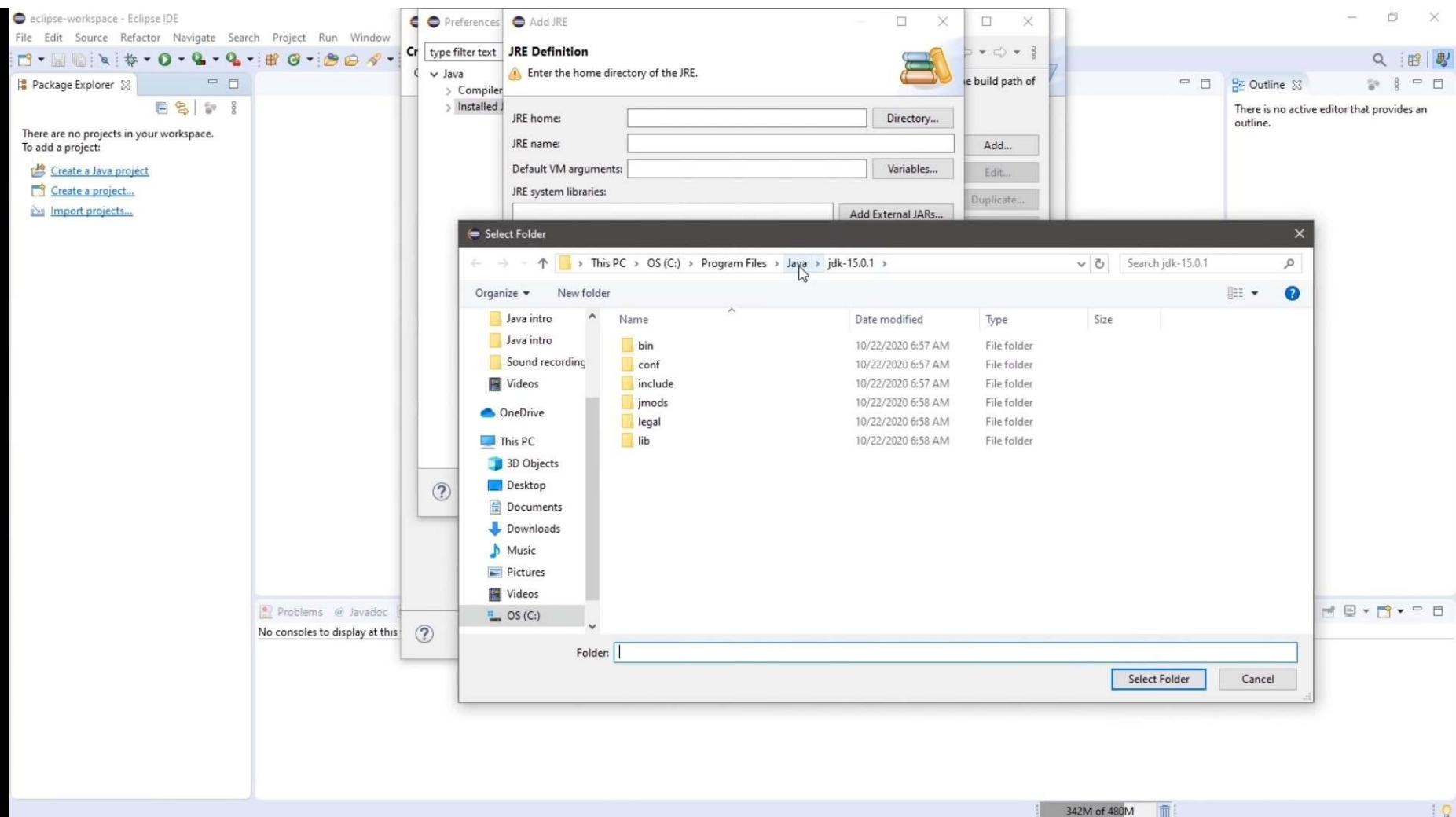


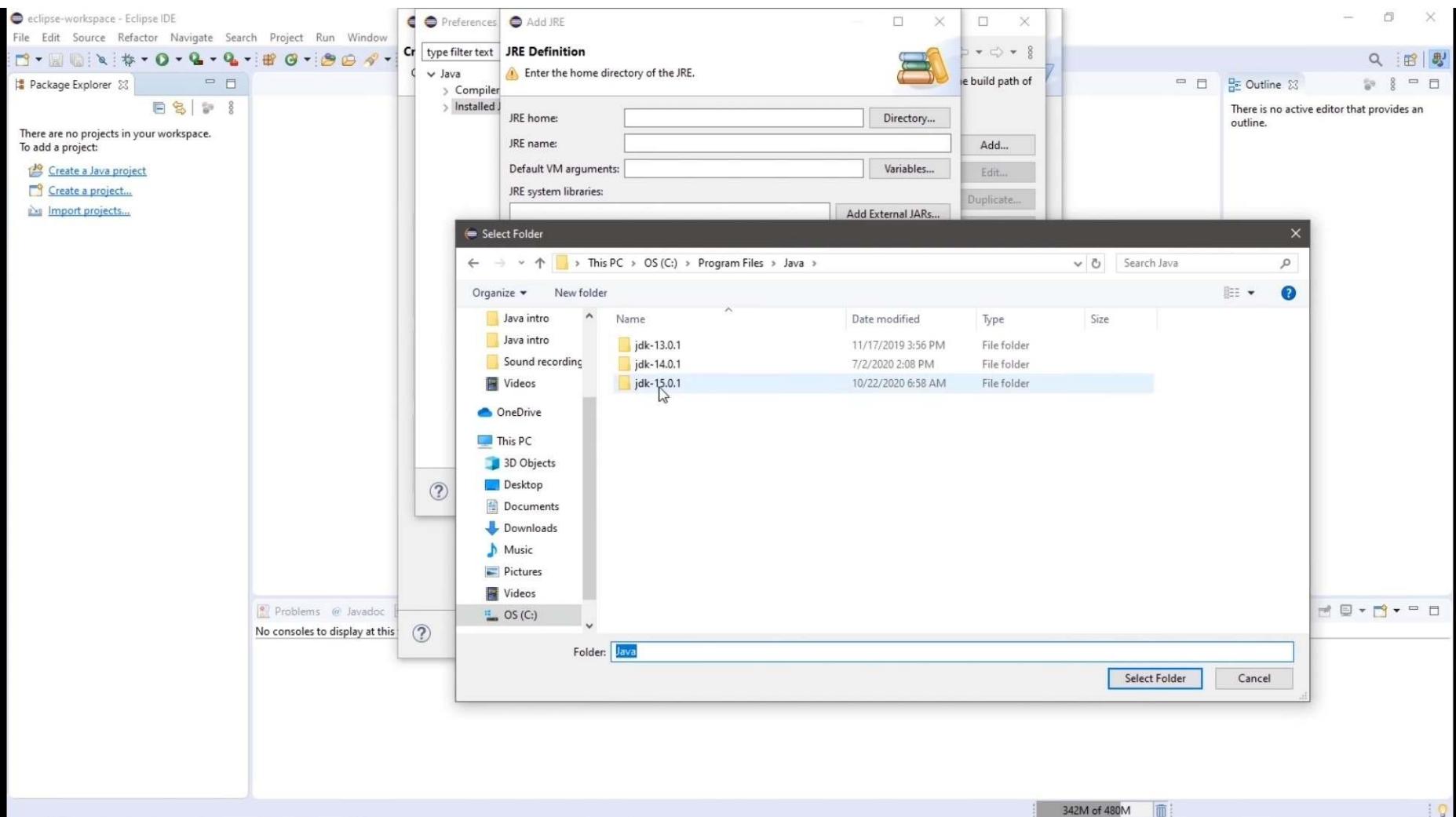


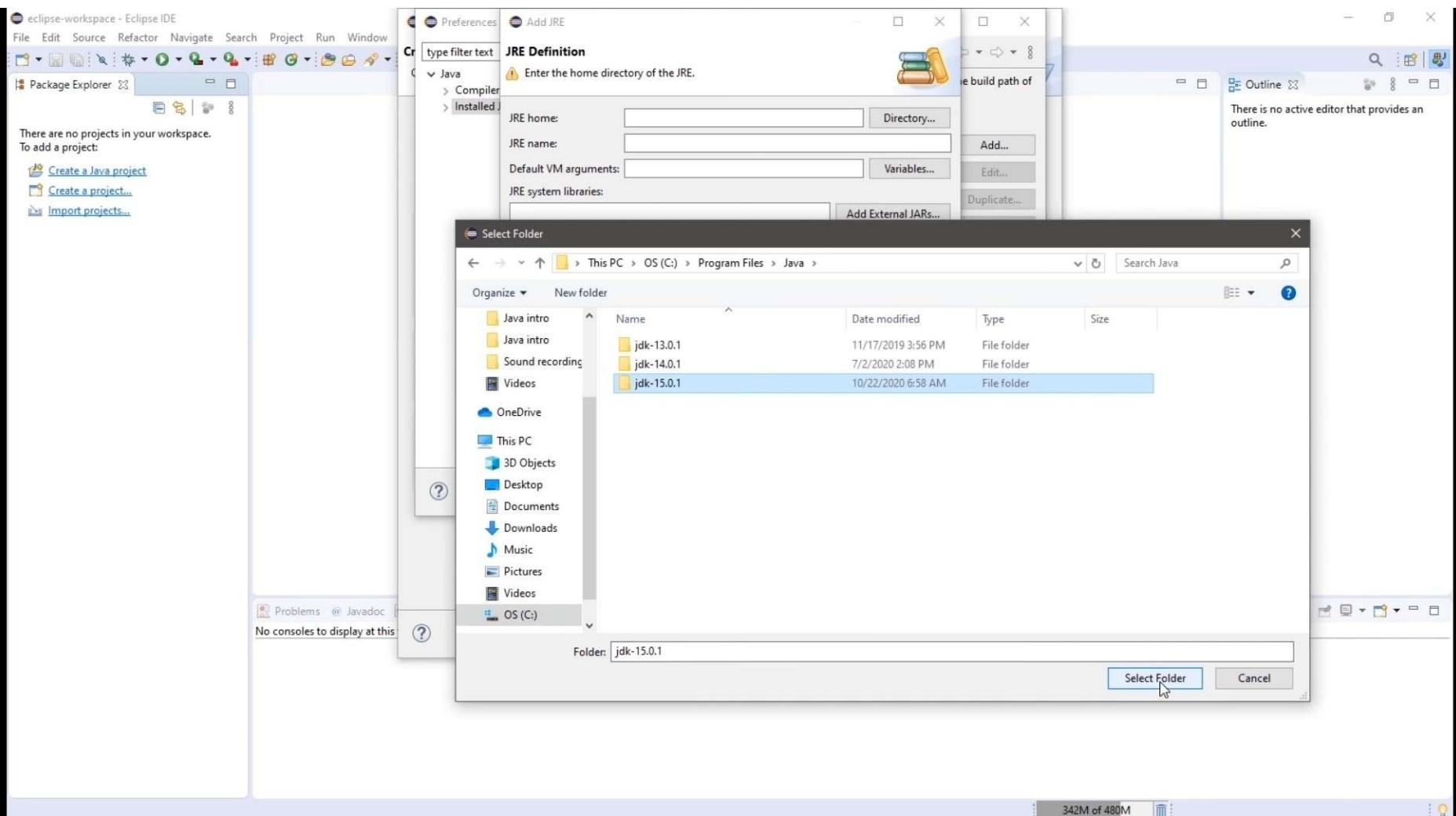


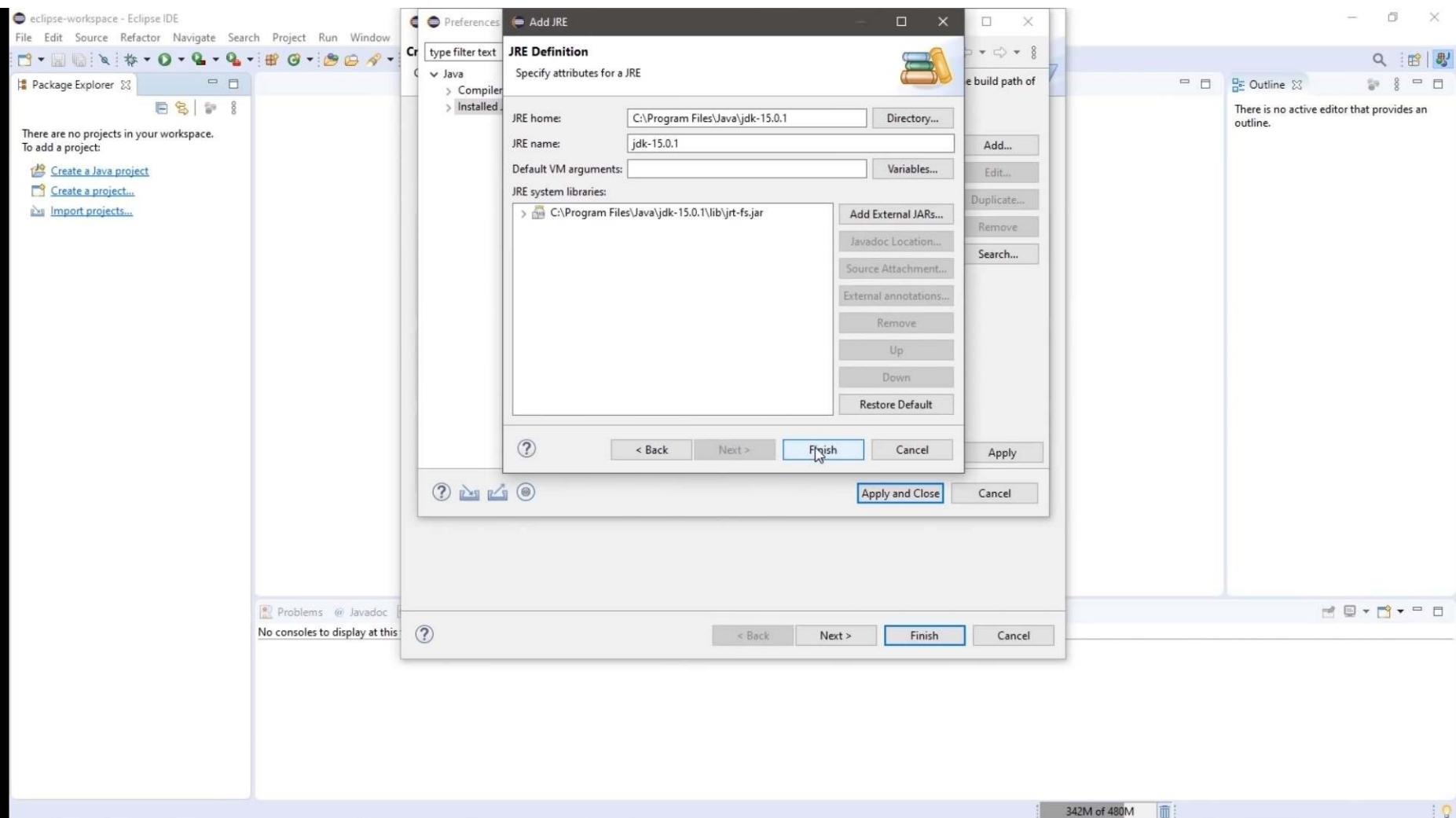


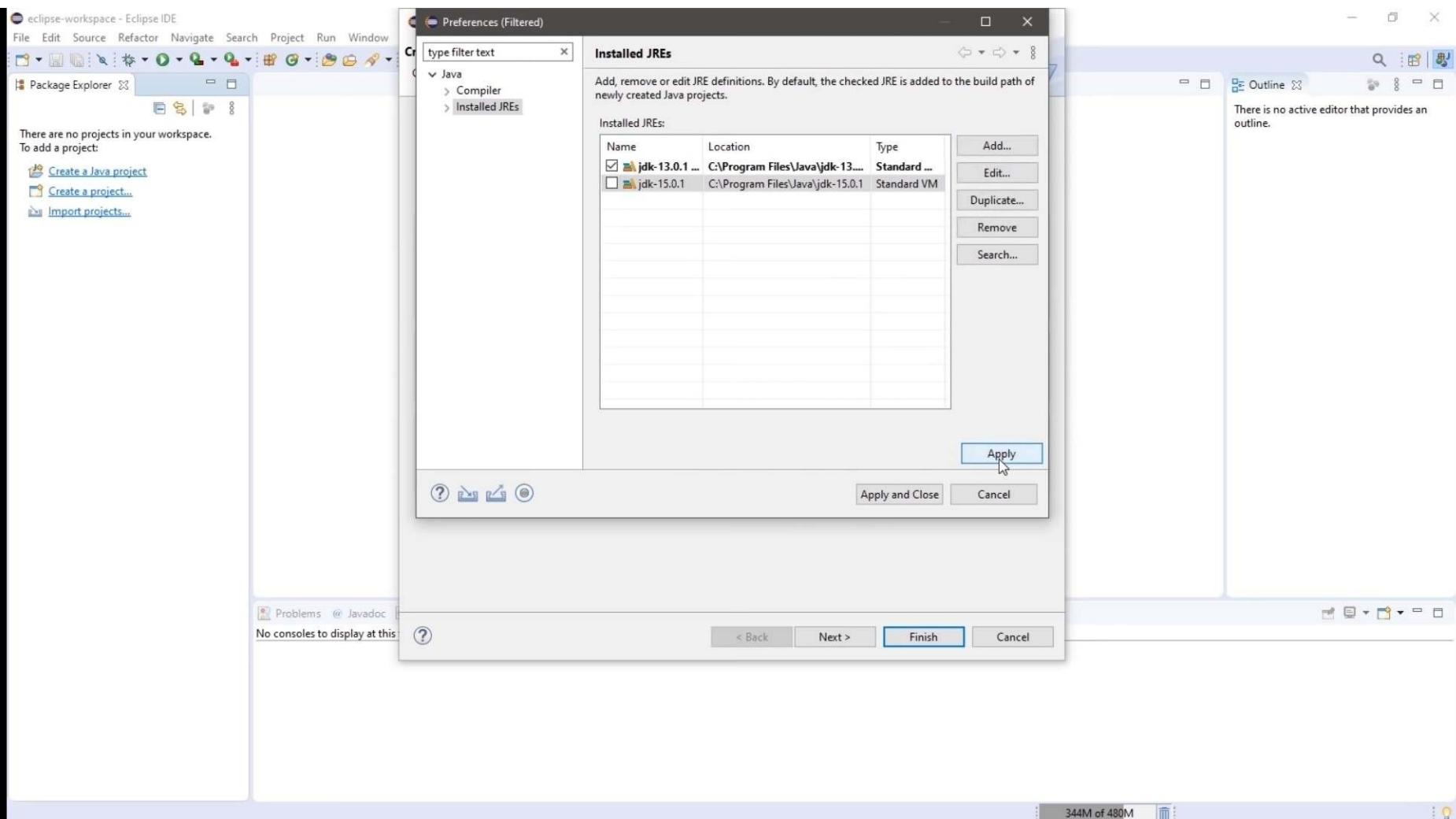


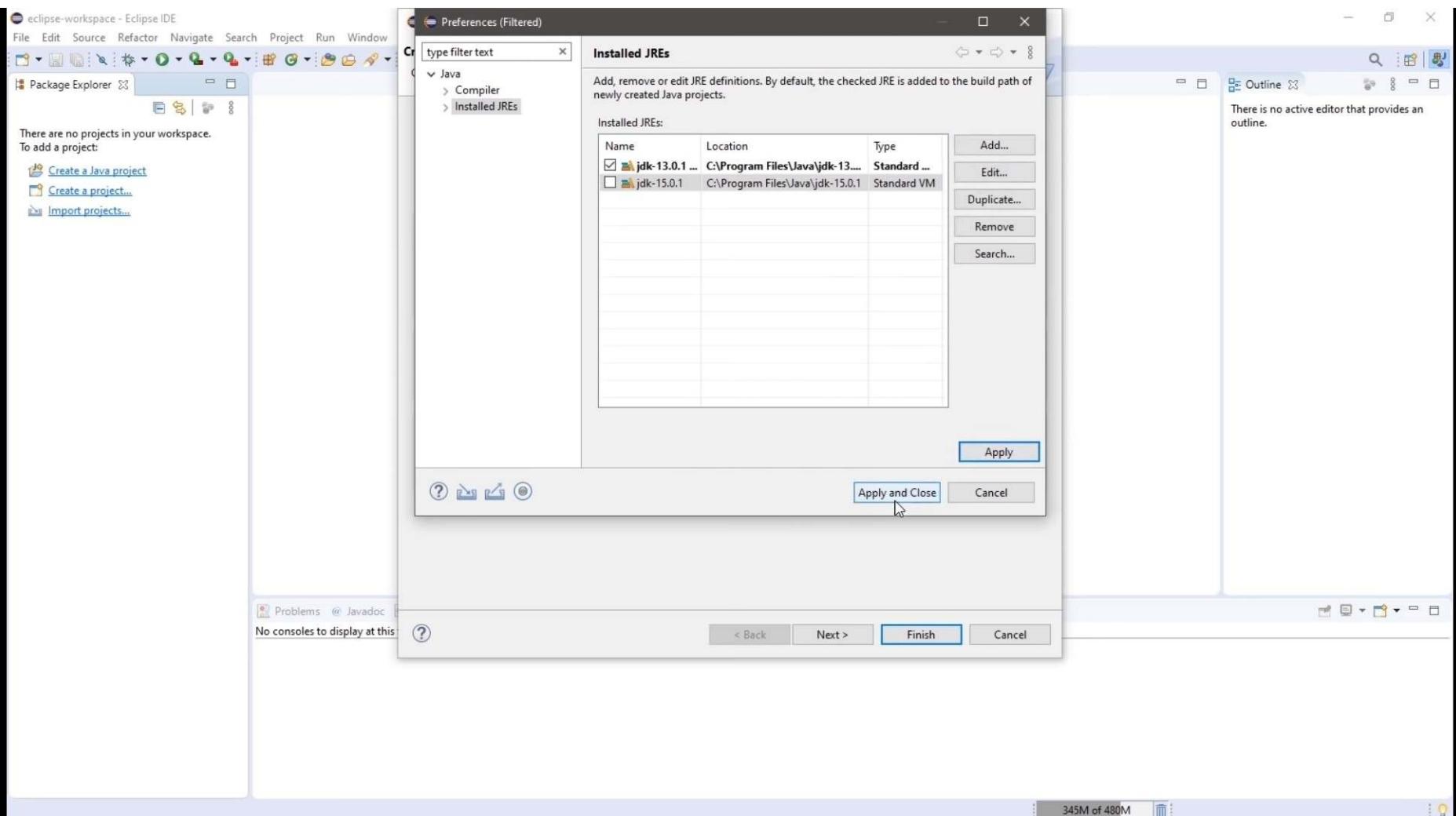


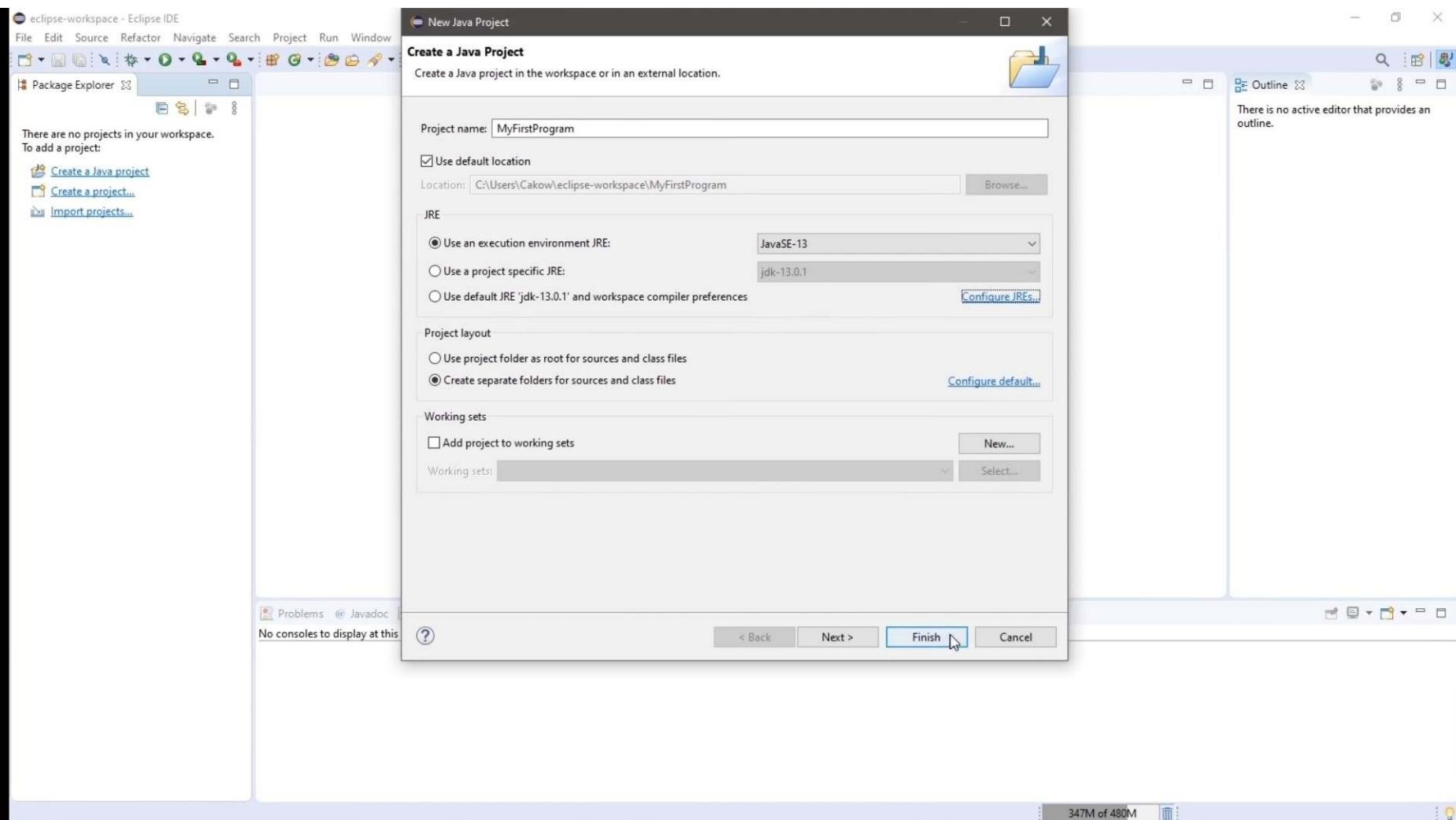


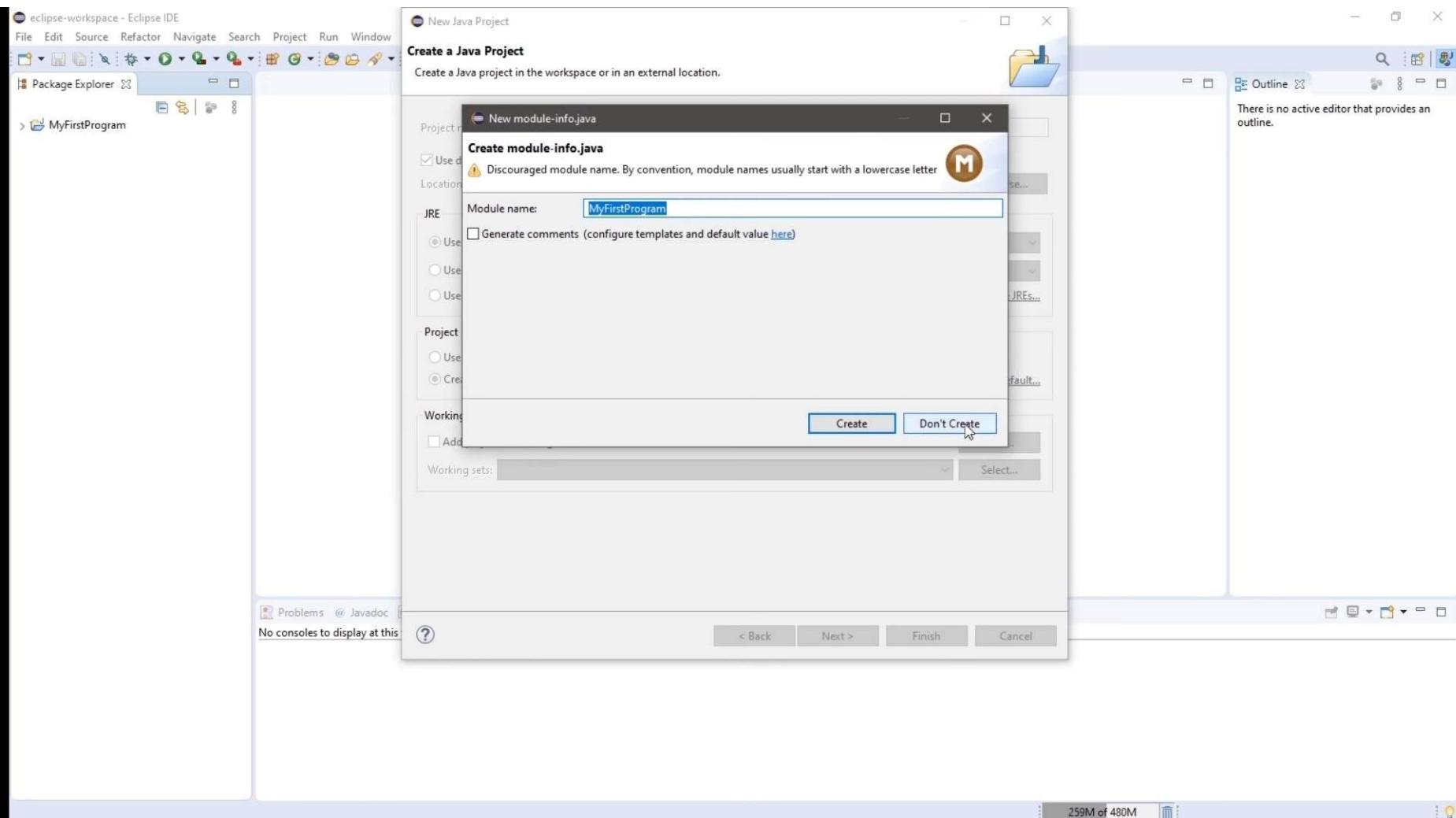


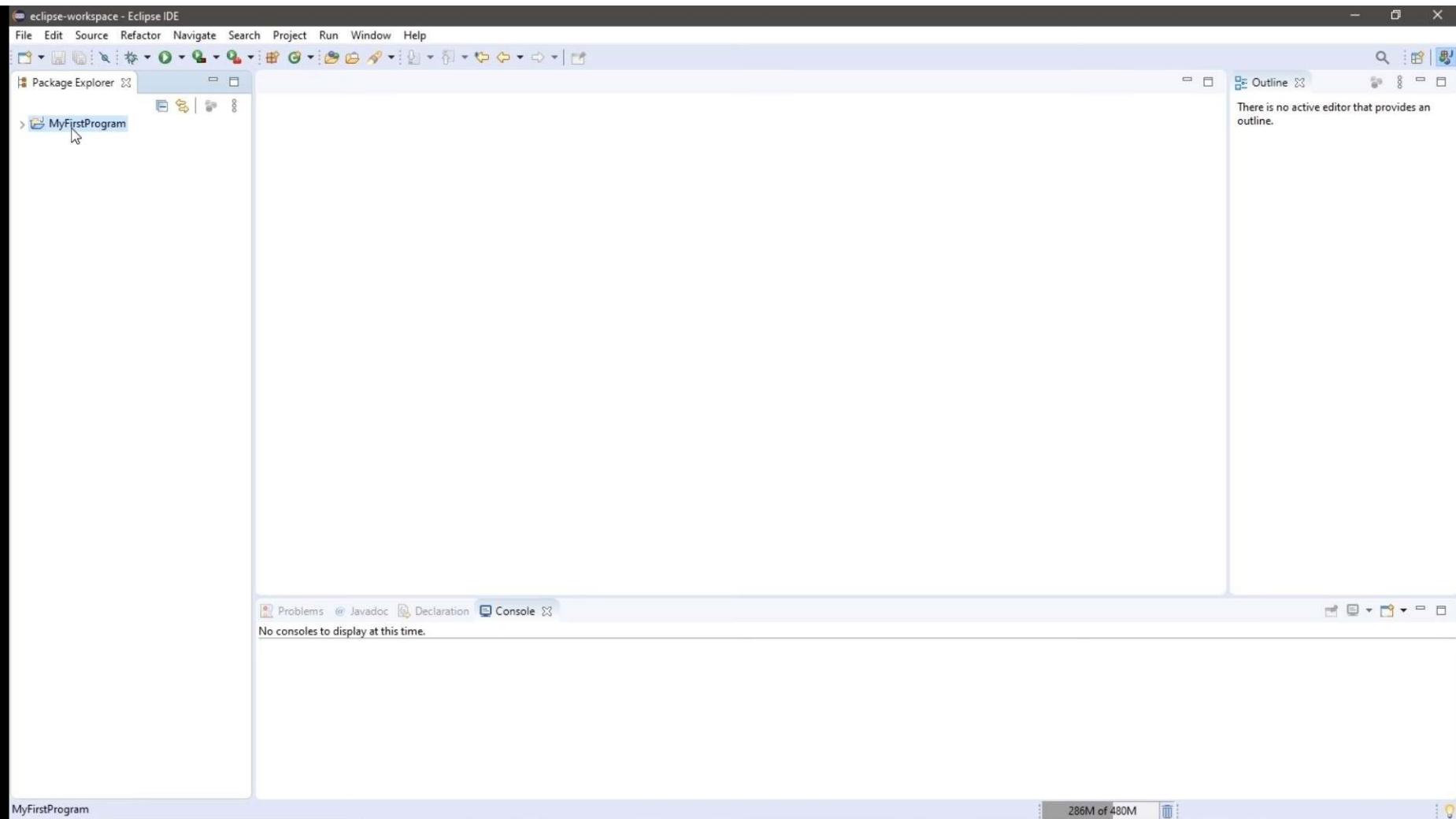


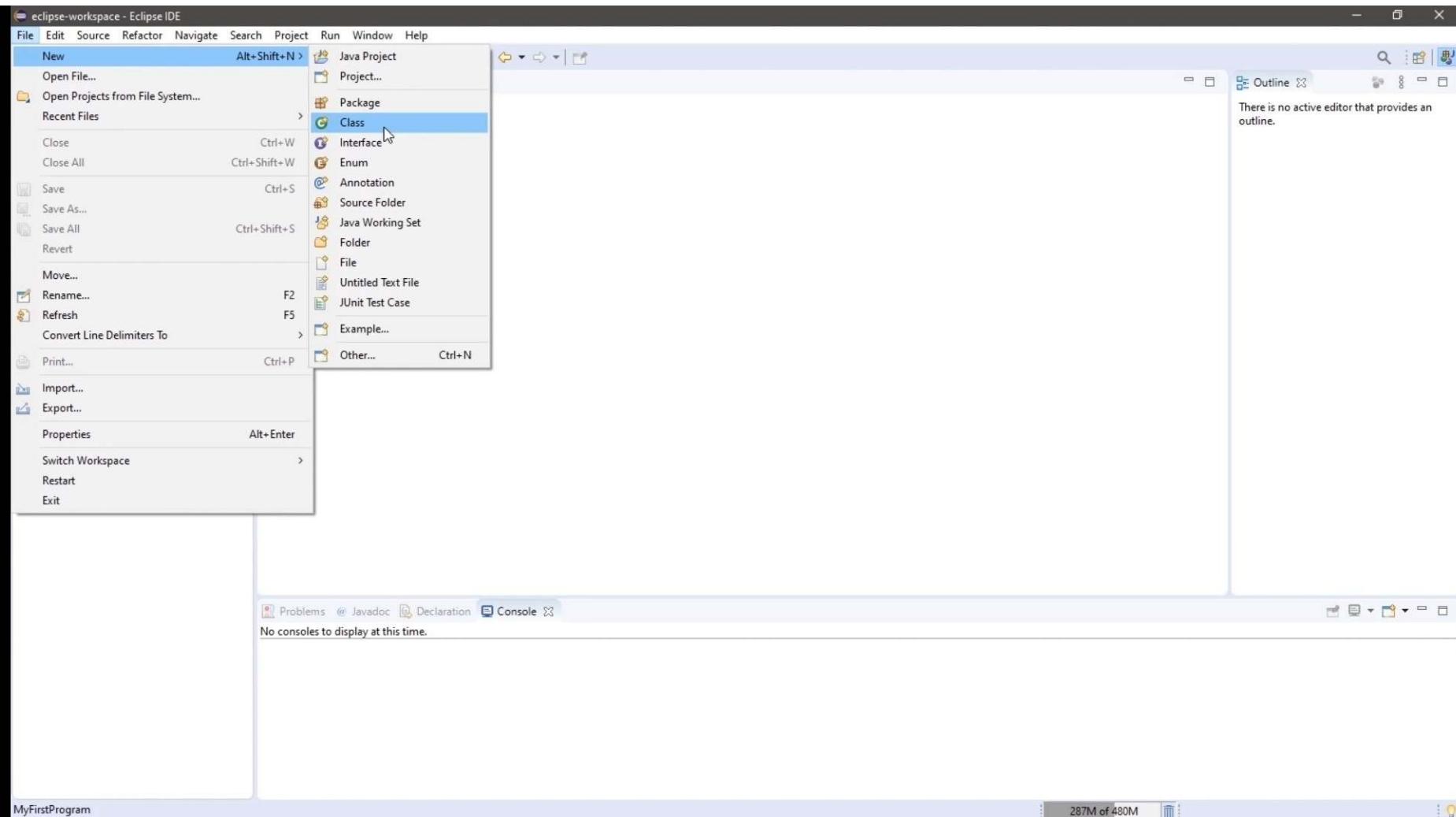






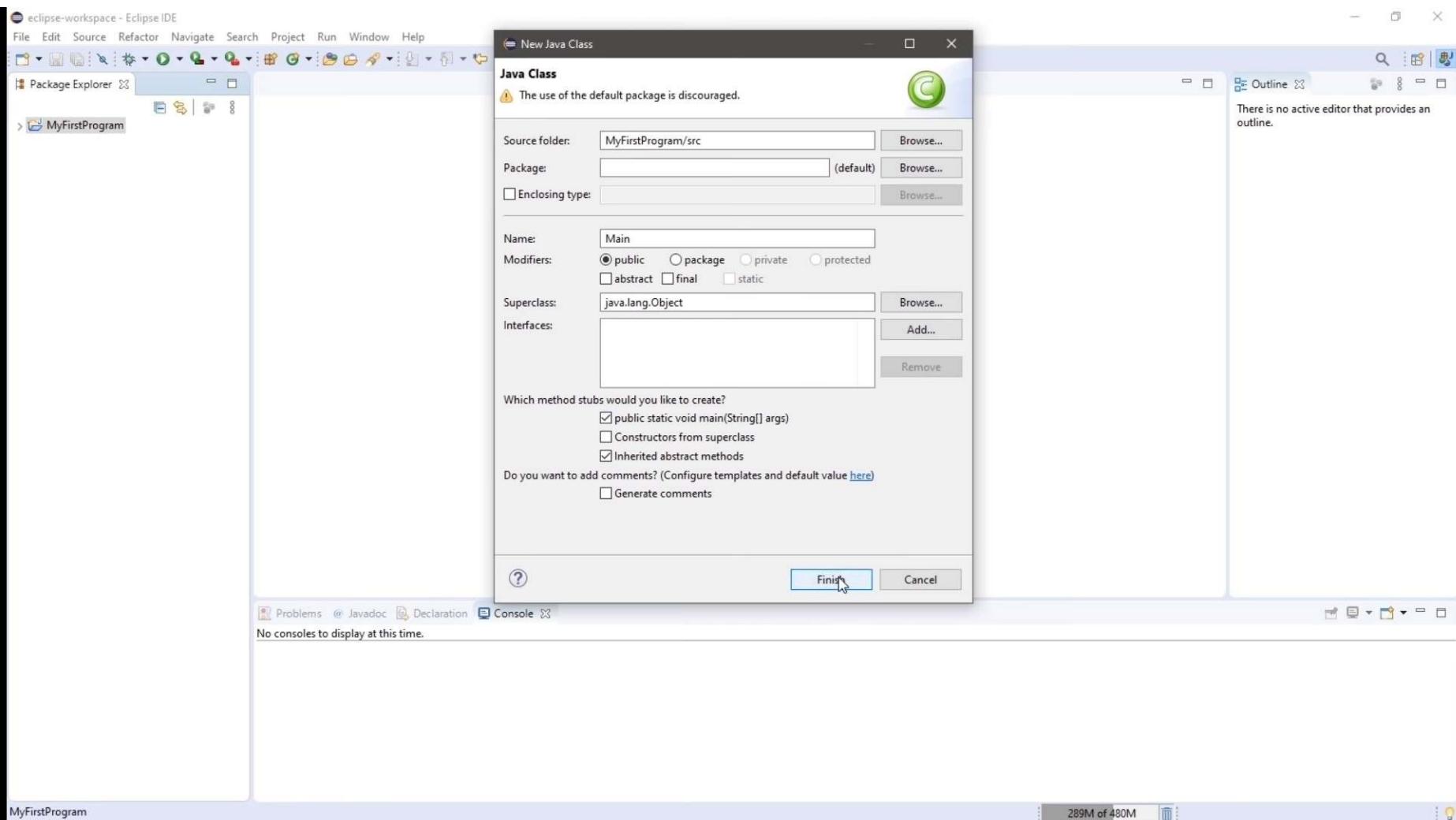






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eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer Main.java Outline

MyFirstProgram

JRE System Library [JavaSE-13]

src

(default package)

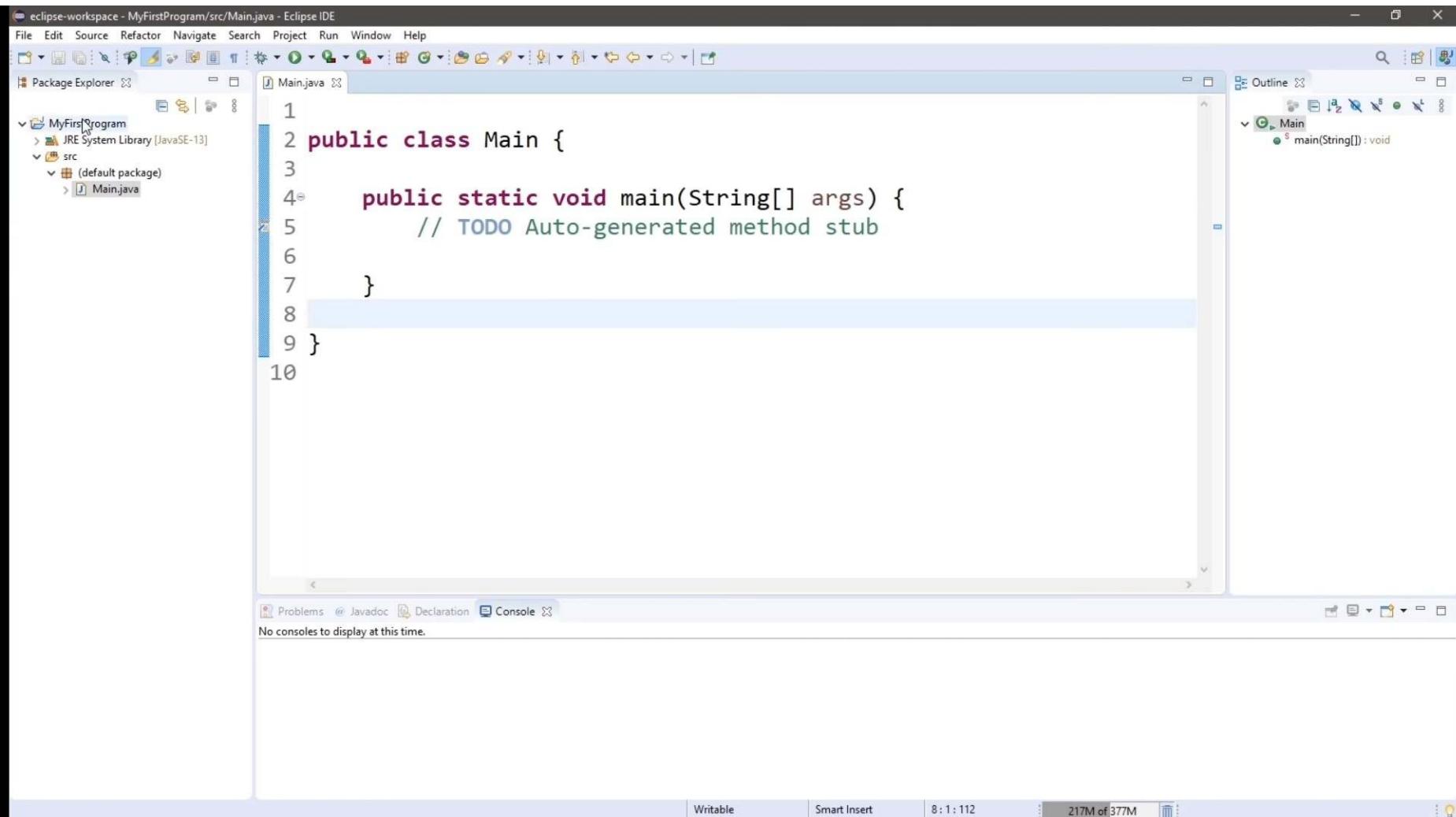
Main.java

```
1
2 public class Main {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7     }
8
9 }
10
```

Problems Javadoc Declaration Console

No consoles to display at this time.

Writable Smart Insert 8:1:112 217M of 377M



eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

MyFirstProgram

JRE System Library [JavaSE-13]

src

(default package)

Main.java

Run Main (F11)

Main

```
1
2 public class Main {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7     }
8
9 }
10
```

Outline

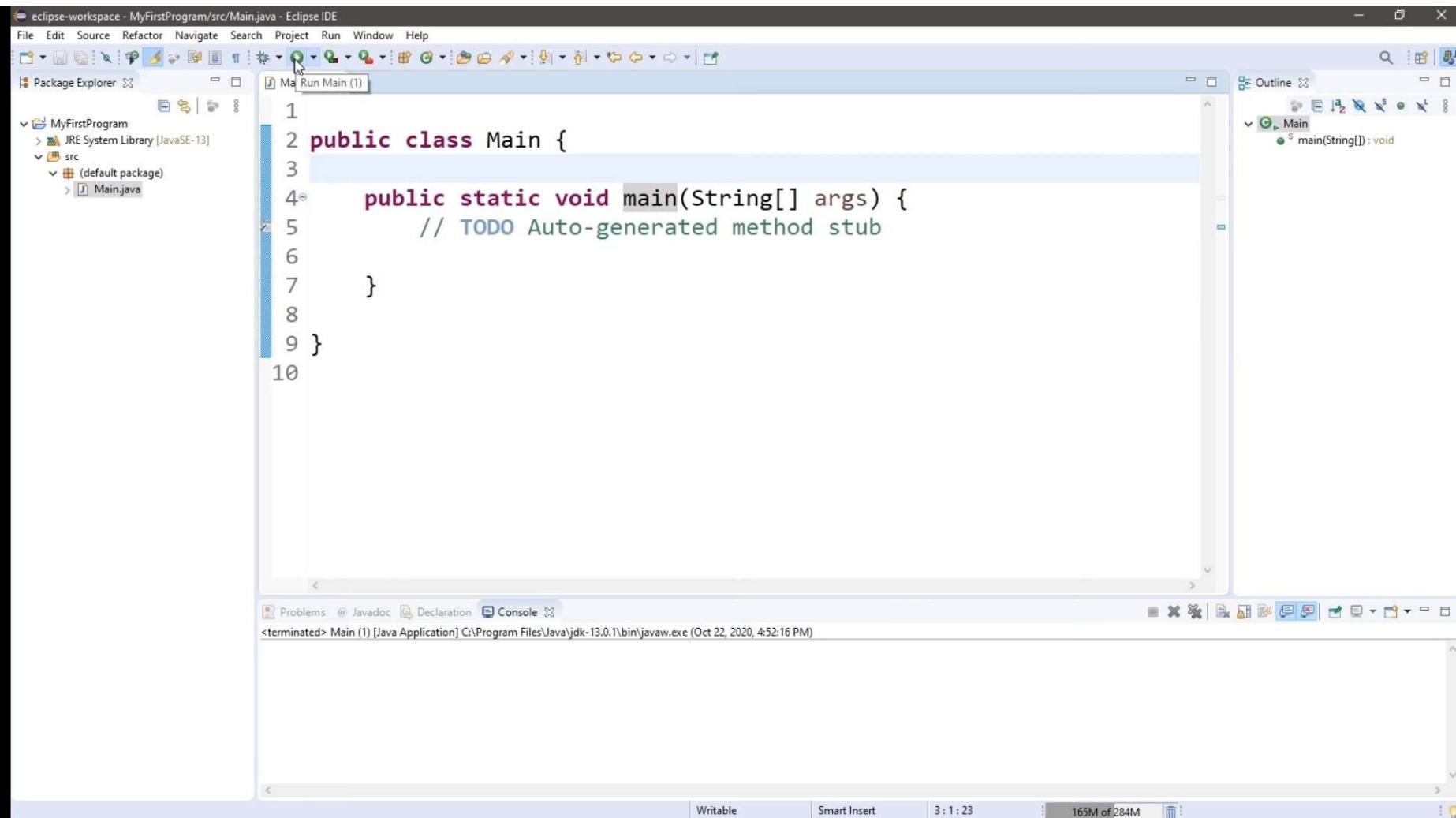
Main

main(String[]): void

Problems Javadoc Declaration Console

<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 22, 2020, 4:52:16 PM)

Writable Smart Insert 3 : 1 : 23 165M of 284M



eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer Outline

Main.java

```
1
2 public class Main {
3
4
5
6 }
7
```

MyFirstProgram JRE System Library [JavaSE-13] src (default package) Main.java

Problems Javadoc Declaration Console

<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 22, 2020, 4:53:25 PM)

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

216M of 284M



eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer Main.java Outline

MyFirstProgram

JRE System Library [JavaSE-13]

src

(default package)

Main.java

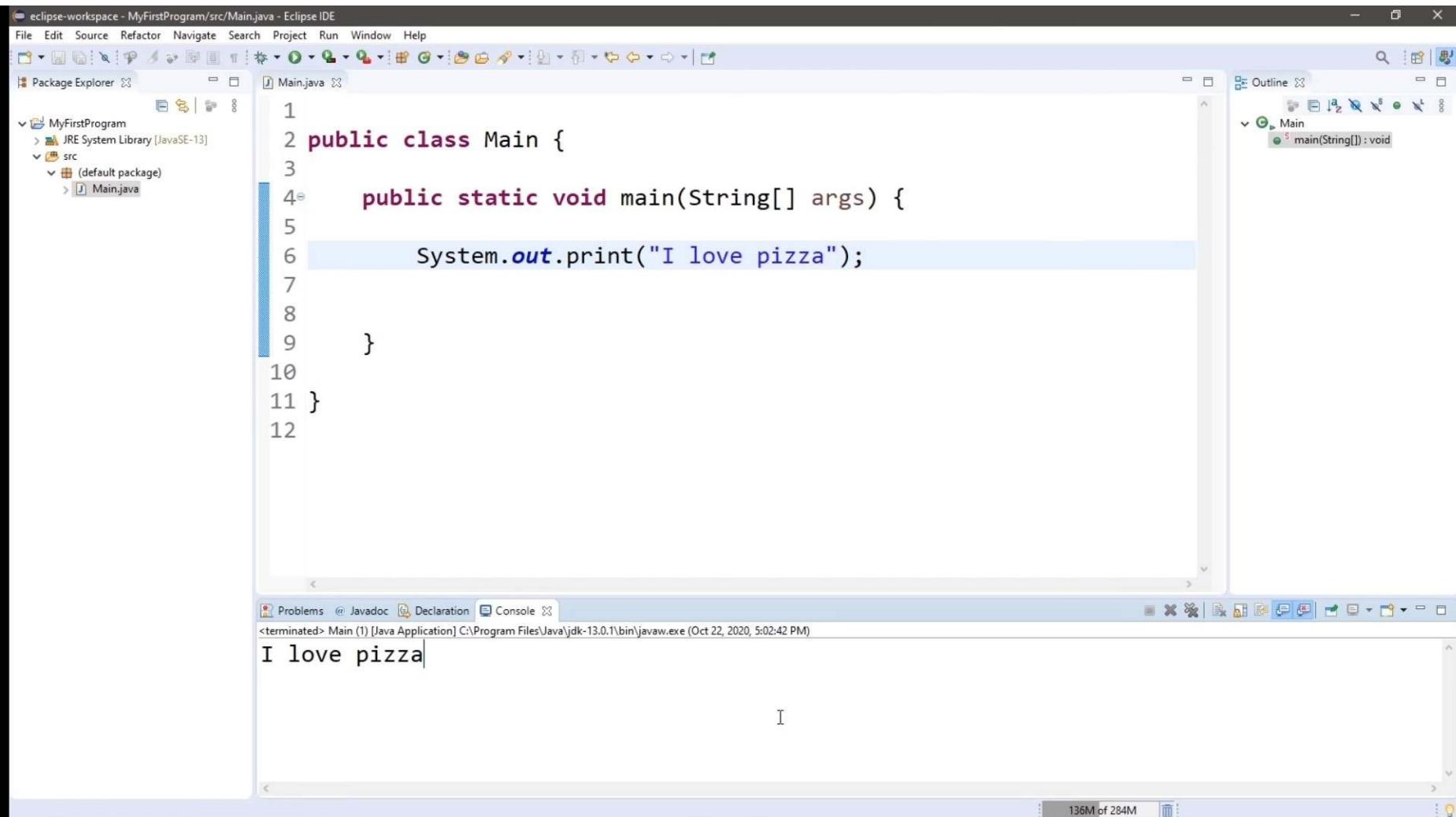
```
1
2 public class Main {
3
4     public static void main(String[] args) {
5
6         System.out.print("I love pizza");
7
8     }
9
10 }
11
12
```

Problems Javadoc Declaration Console

<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 22, 2020, 5:02:42 PM)

I love pizza

136M of 284M

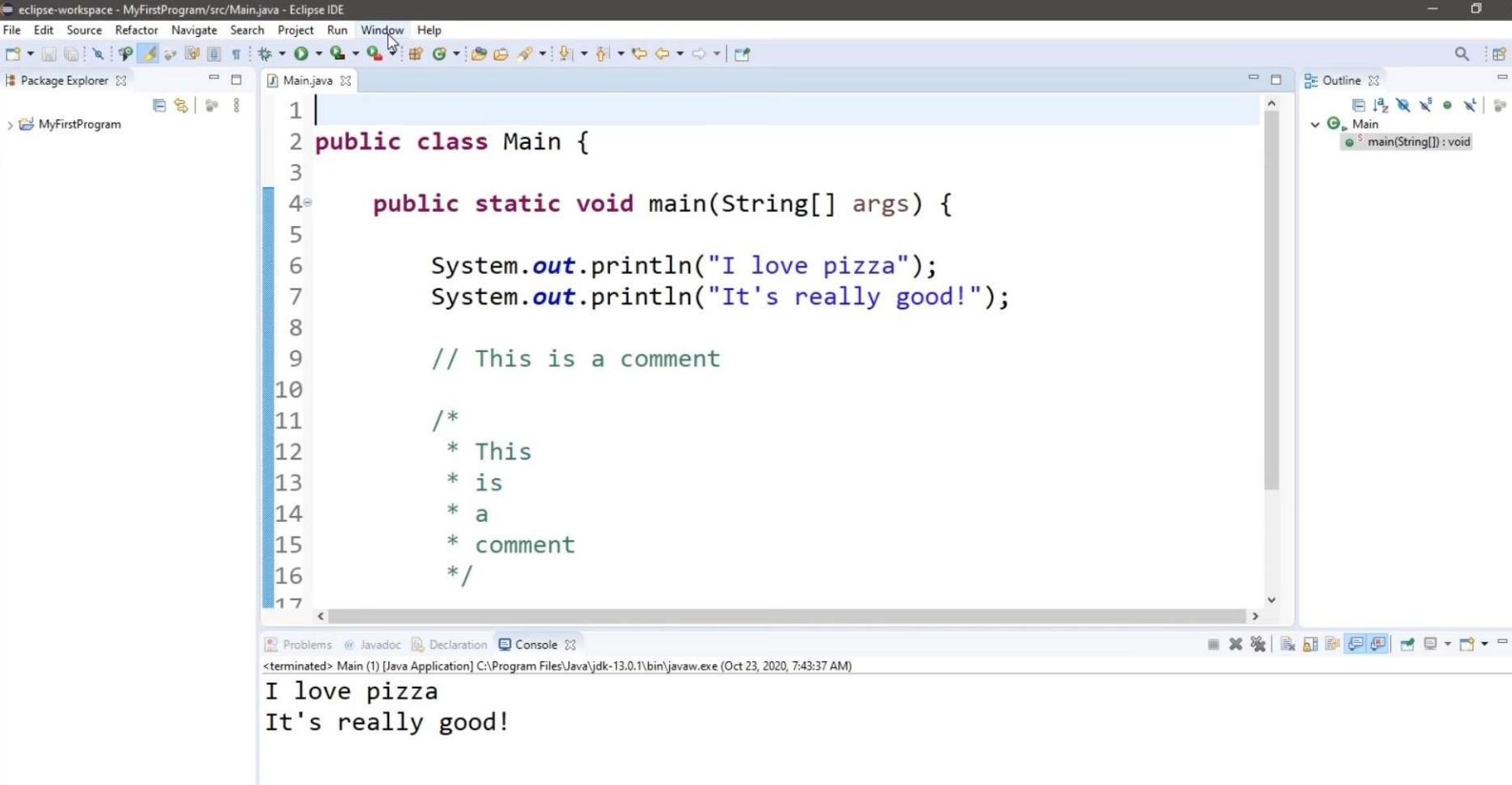


The image shows the Eclipse IDE interface with the following details:

- Top Bar:** eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE, File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help.
- Left Sidebar:** Package Explorer (MyFirstProgram, JRE System Library [JavaSE-13], src, (default package), Main.java).
- Central Area:** Main.java code editor with the following content:

```
1
2 public class Main {
3
4     public static void main(String[] args) {
5
6         System.out.print("I love pizza");
7
8     }
9
10 }
11
12
```
- Right Sidebar:** Outline (Main, main(String[]))
- Bottom Area:** Problems, Javadoc, Declaration, Console (Output: <terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 22, 2020, 5:02:42 PM), I love pizza).
- Bottom Status Bar:** 136M of 284M.





The screenshot shows the Eclipse IDE interface with the following details:

- Top Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help.
- Left Sidebar:** Package Explorer (MyFirstProgram selected), MyFirstProgram.
- Central Editor:** Main.java (Content of Main.java is shown below).
- Outline View:** Shows the Main class and its main() method.
- Bottom Bar:** Problems, Javadoc, Declaration, Console (Output: I love pizza, It's really good!).
- Bottom Status Bar:** Writable, Smart Insert, 1:1:0, 167M of 258M.

```
1
2 public class Main {
3
4     public static void main(String[] args) {
5
6         System.out.println("I love pizza");
7         System.out.println("It's really good!");
8
9         // This is a comment
10
11        /*
12         * This
13         * is
14         * a
15         * comment
16         */
17    }
18}
```

Console Output:

```
I love pizza
It's really good!
```

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eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer MyFirstProgram

Main.java

```
1
2 public class Main {
3
4     static void main(String[] args) {
5
6         System.out.println("I love pizza");
7         System.out.println("It's really good!");
8
9         // This is a comment
10
11        /*
12         * This
13         * is
14         * a
15         * comment
16         */
17 }
```

Problems Javadoc Declaration Console

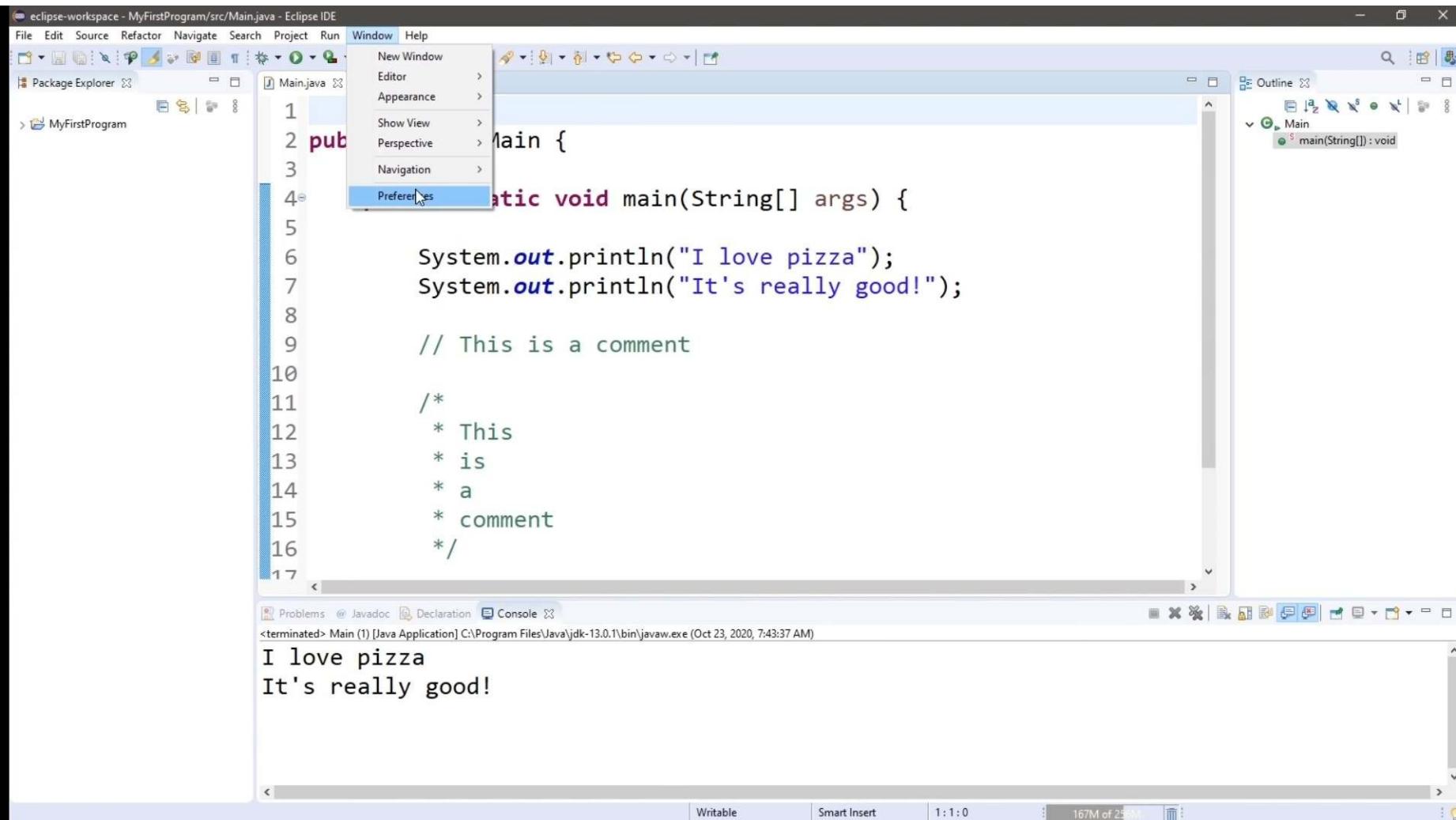
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:43:37 AM)

I love pizza
It's really good!

Writable Smart Insert 1:1:0 167M of 25M

Outline

Main main(String[]): void



eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer MyFirstProgram

Main.java

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5     }  
6 }  
7 //  
8 /*  
9 */  
10 /*  
11 */  
12 /*  
13 */  
14 /*  
15 */  
16 */
```

Preferences

General

- Always run in background
- Keep next/previous editor, view and perspectives dialog open
- Show heap status

Workbench save interval (in minutes): 5

Open mode

- Double click
- Single click
 - Select on hover
 - Open when using arrow keys

Note: This preference may not take effect on all views

Restore Defaults Apply

Apply and Close Cancel

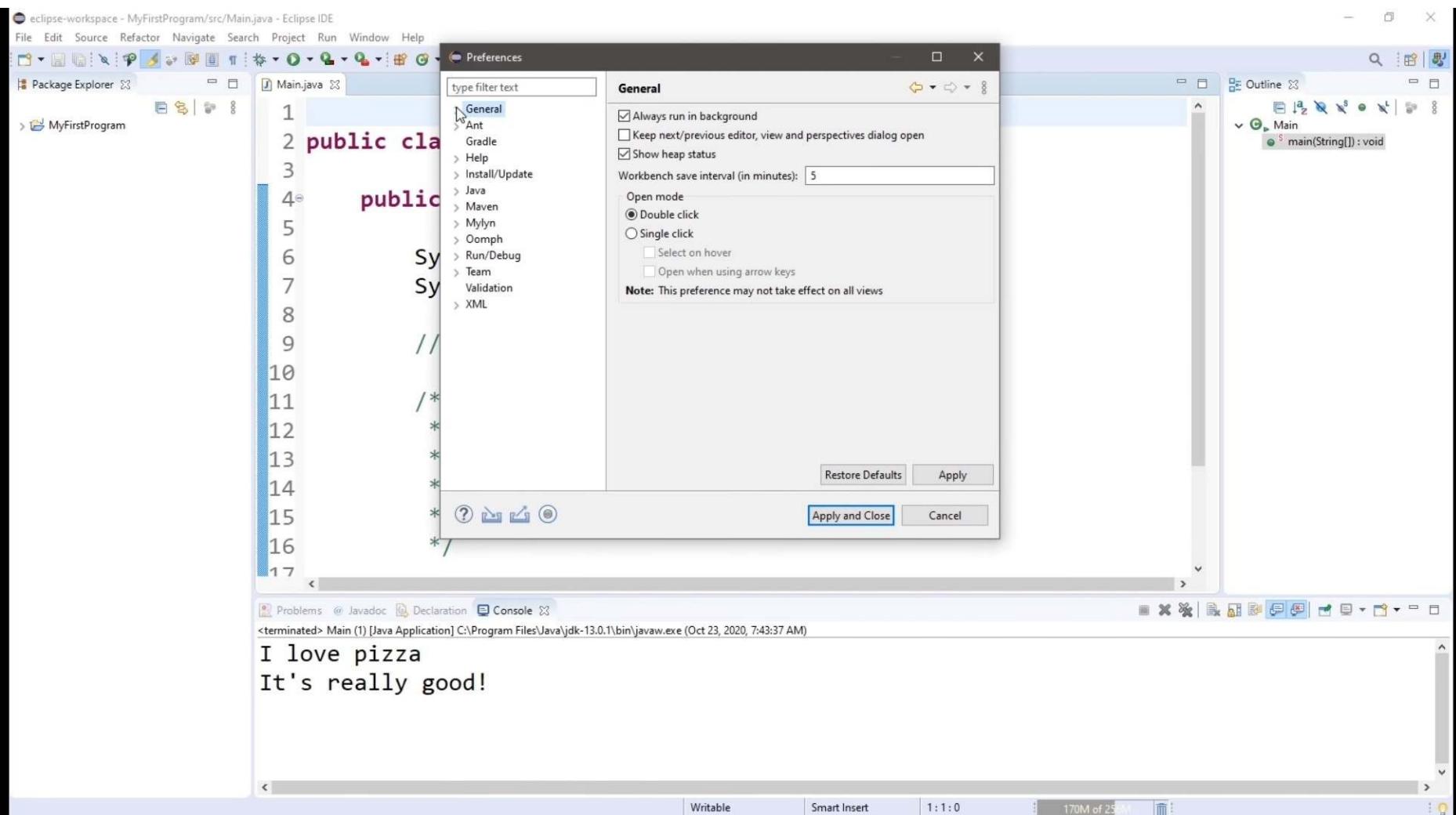
Problems Javadoc Declaration Console

<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:43:37 AM)

I love pizza
It's really good!

Writable Smart Insert 1:1:0 170M of 257M

Outline Main main(String[]) : void



eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer MyFirstProgram

Main.java

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5     }  
6 }
```

Preferences

Appearance

Enable theming (requires restart) Theme: Light
Color and Font theme: Default (current)

Description:

Enable animations
 Use mixed fonts and colors for labels

Visible tabs on overflow:
 Show most recently used tabs

Restore Defaults Apply

Outline

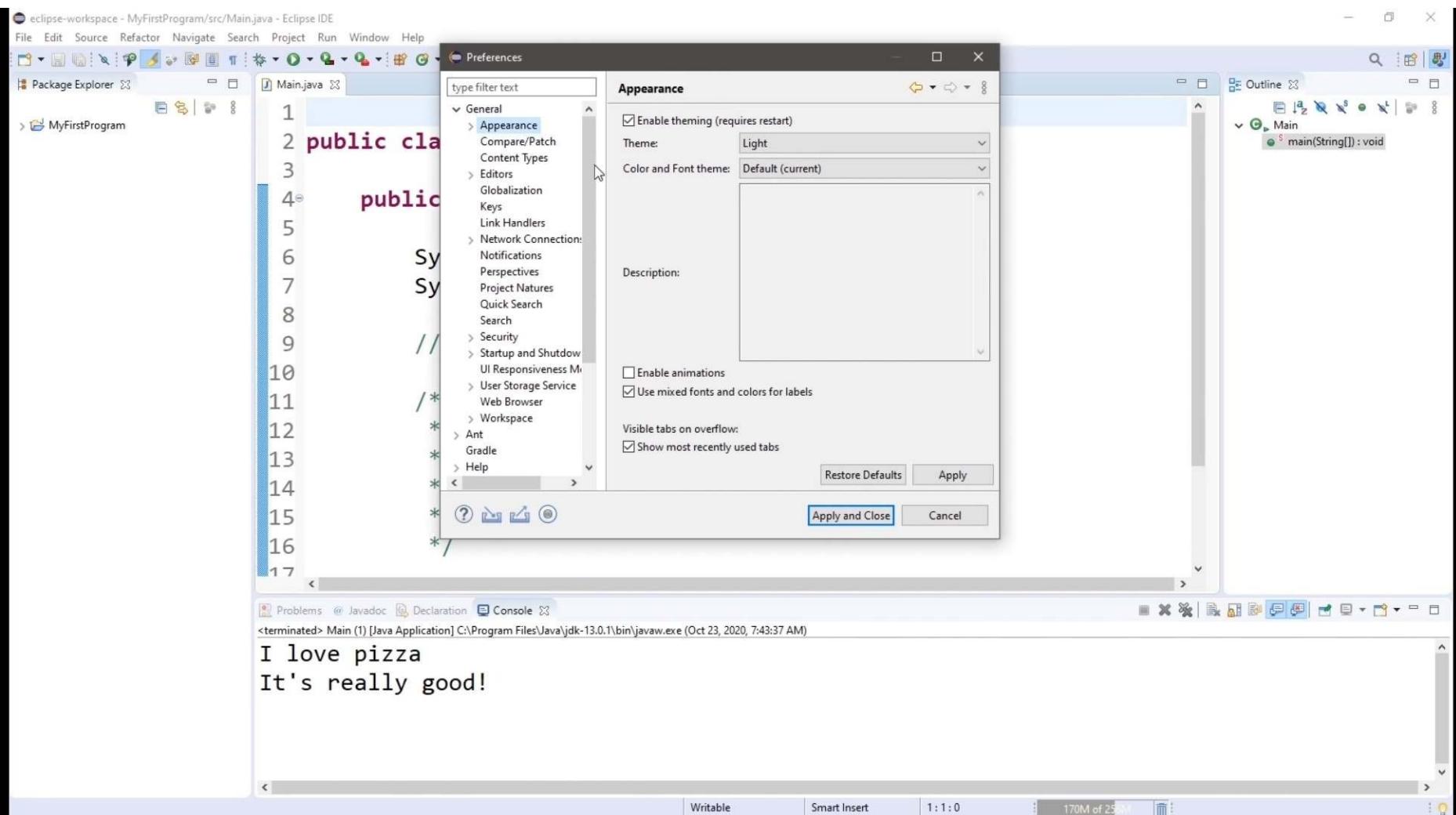
Main main(String[]) : void

Problems Javadoc Declaration Console

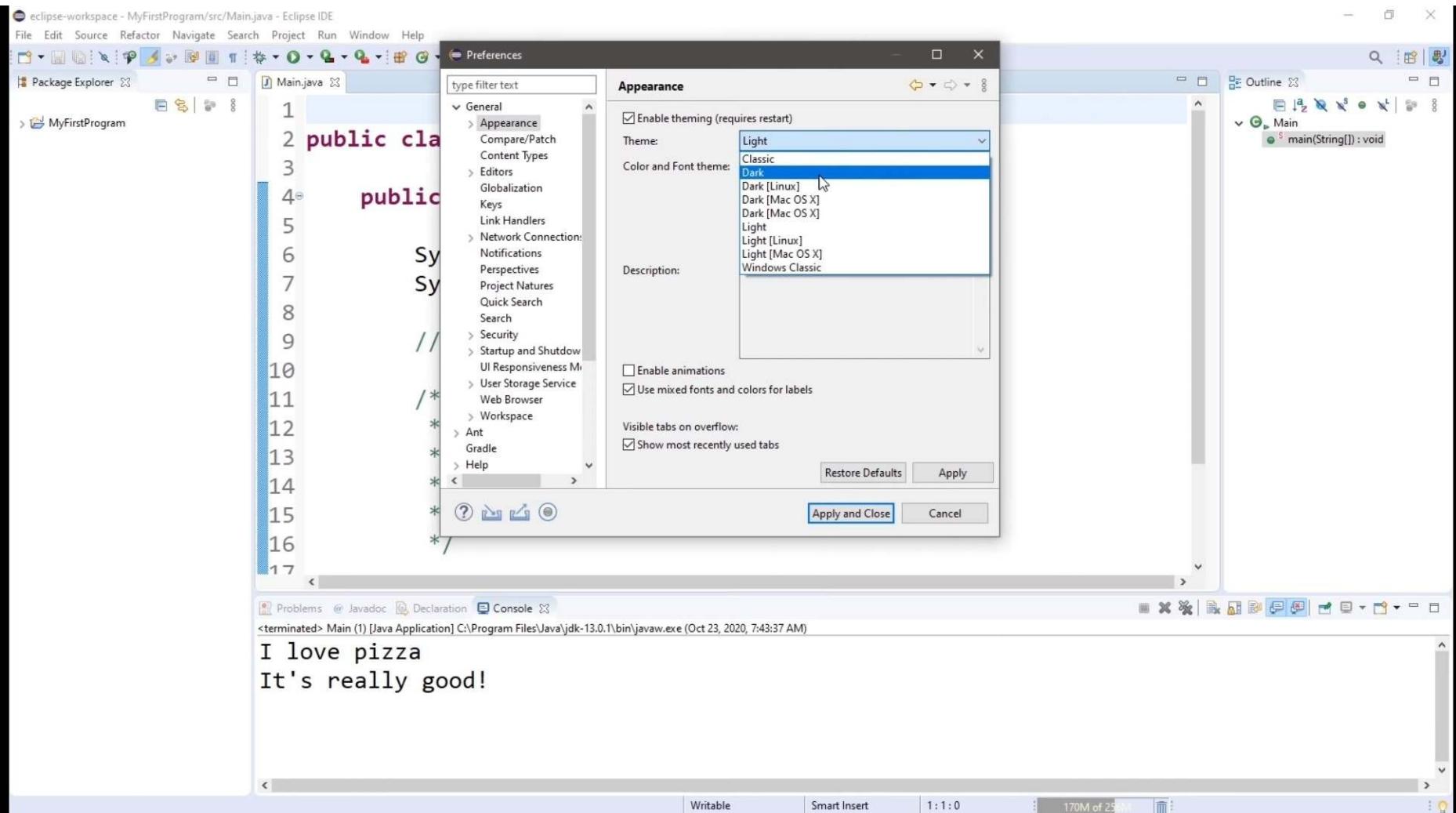
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:43:37 AM)

I love pizza
It's really good!

Writable Smart Insert 1:1:0 170M of 250M



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eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer MyFirstProgram

Main.java

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5     }  
6 }
```

Preferences

Appearance

Enable theming (requires restart) Theme: Dark

Color and Font theme: Default (current)

Description:

Enable animations

Use mixed fonts and colors for labels

Visible tabs on overflow:

Show most recently used tabs

Restore Defaults Apply

Apply and Close Cancel

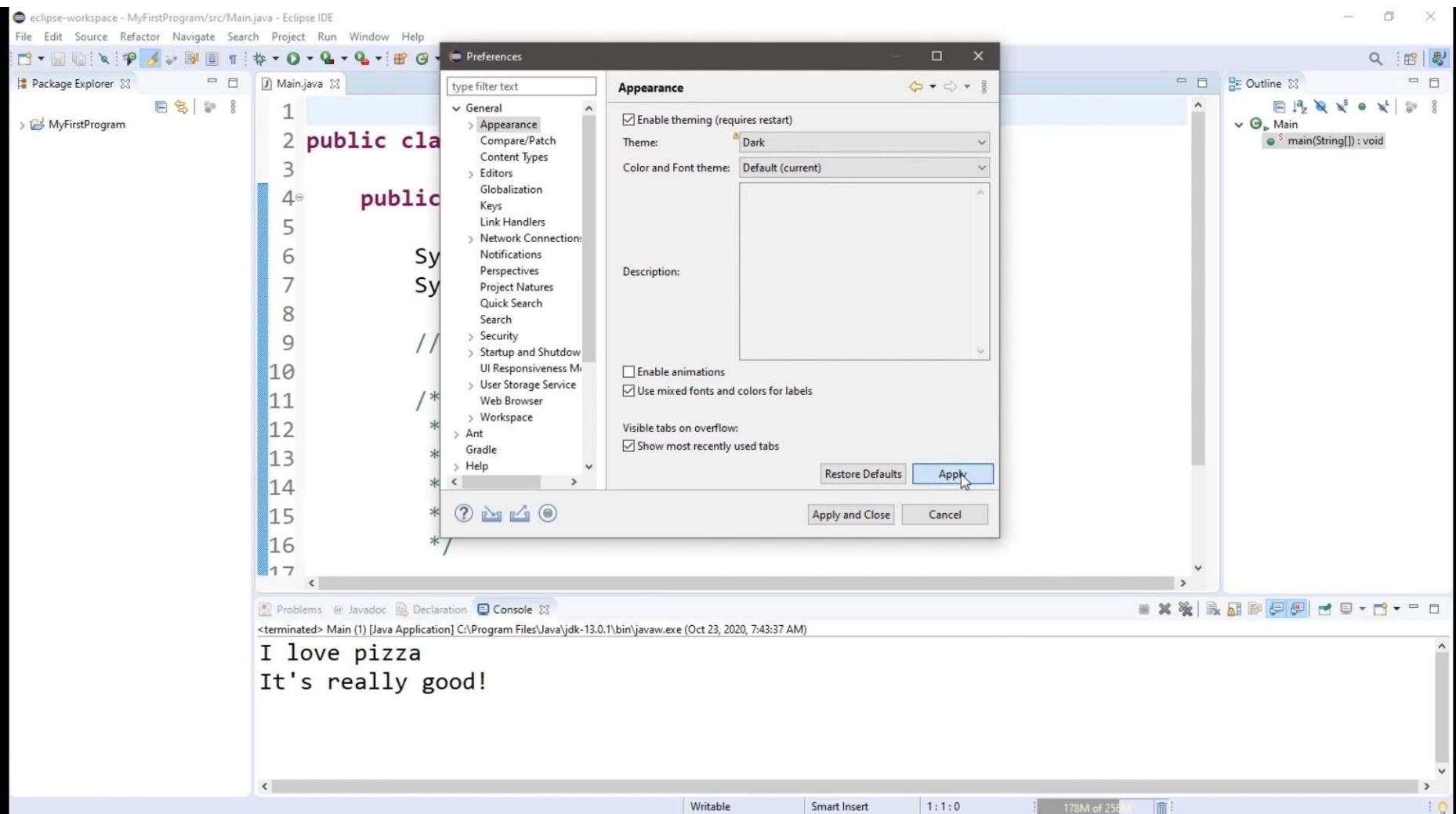
Problems Javadoc Declaration Console

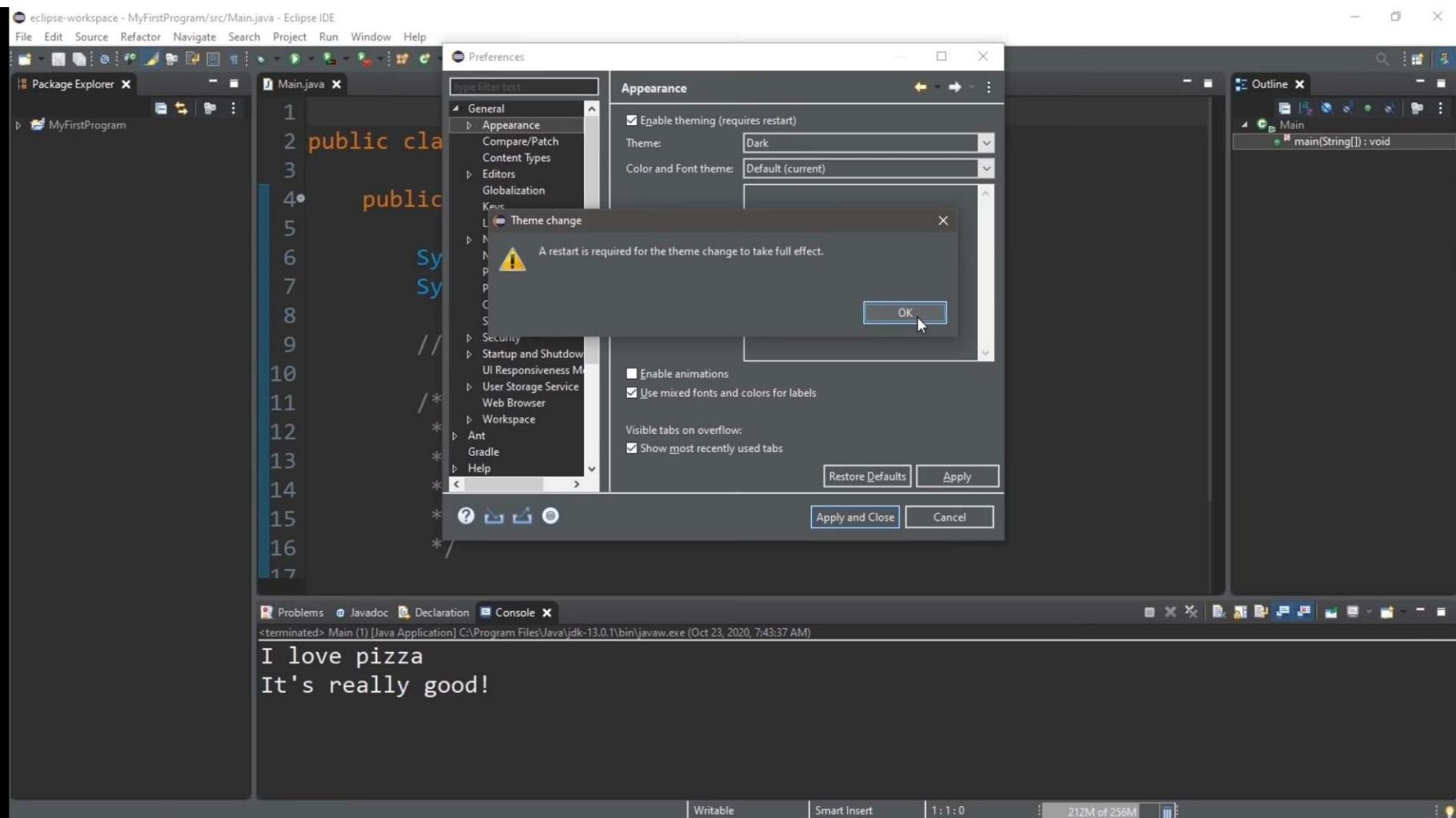
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:43:37 AM)

I love pizza
It's really good!

Writable Smart Insert 1:1:0 178M of 256M

Outline Main main(String[]) : void





eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X Main.java X

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5     }  
6 }  
7 //  
8 /*  
9 */  
10 */  
11 */  
12 */  
13 */  
14 */  
15 */  
16 */  
17 */
```

Preferences X

Appearance

Enable theming (requires restart)
Theme: Dark
Color and Font theme: Default (current)

Description:

Enable animations
Use mixed fonts and colors for labels

Show most recently used tabs

Restore Defaults Apply

Apply and Close Cancel

Outline X

Main main(String[] args) : void

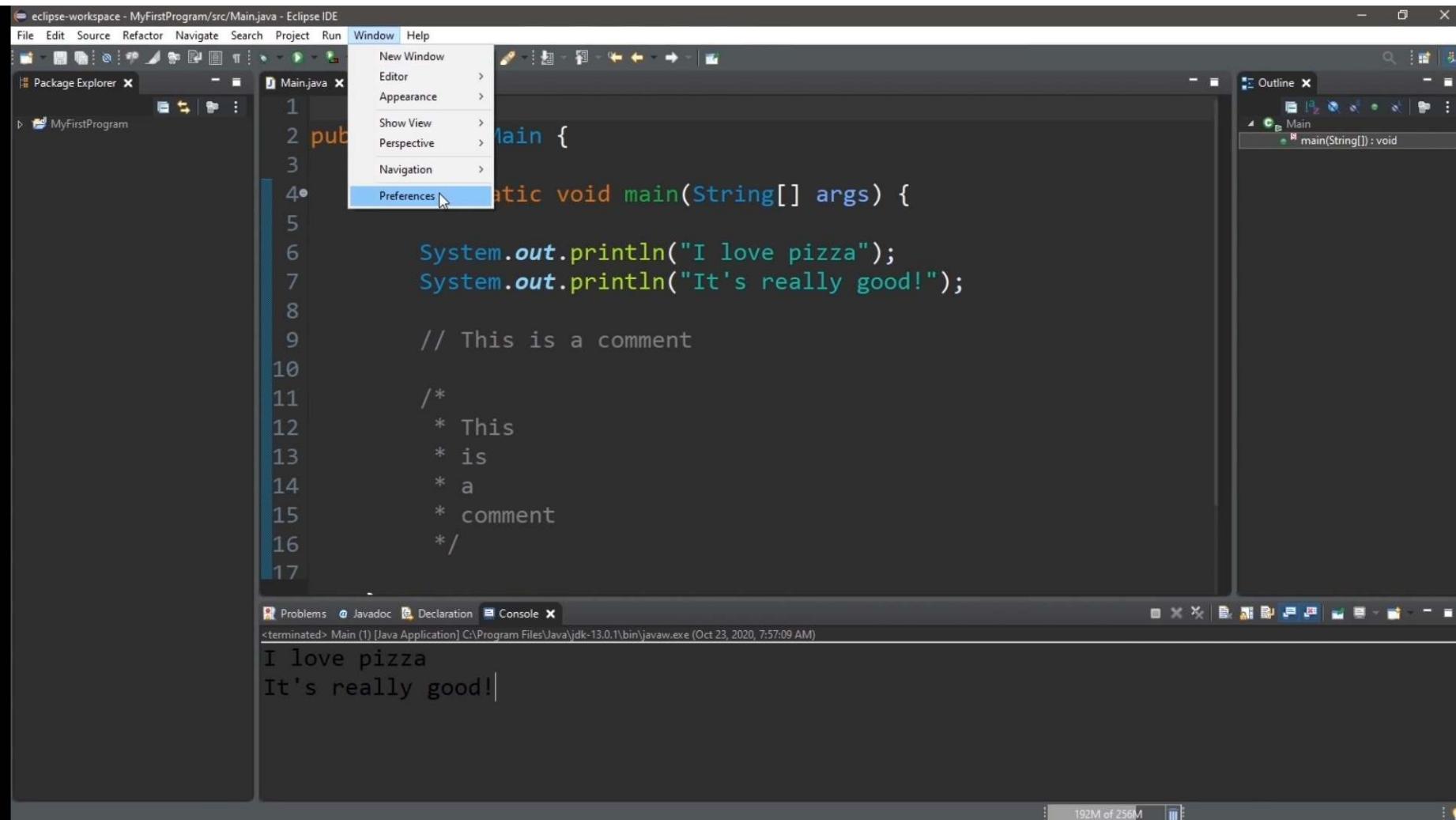
Problems X Javadoc X Declaration X Console X

<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:43:37 AM)

I love pizza
It's really good!

Writable Smart Insert 1:1:0 215M of 256M





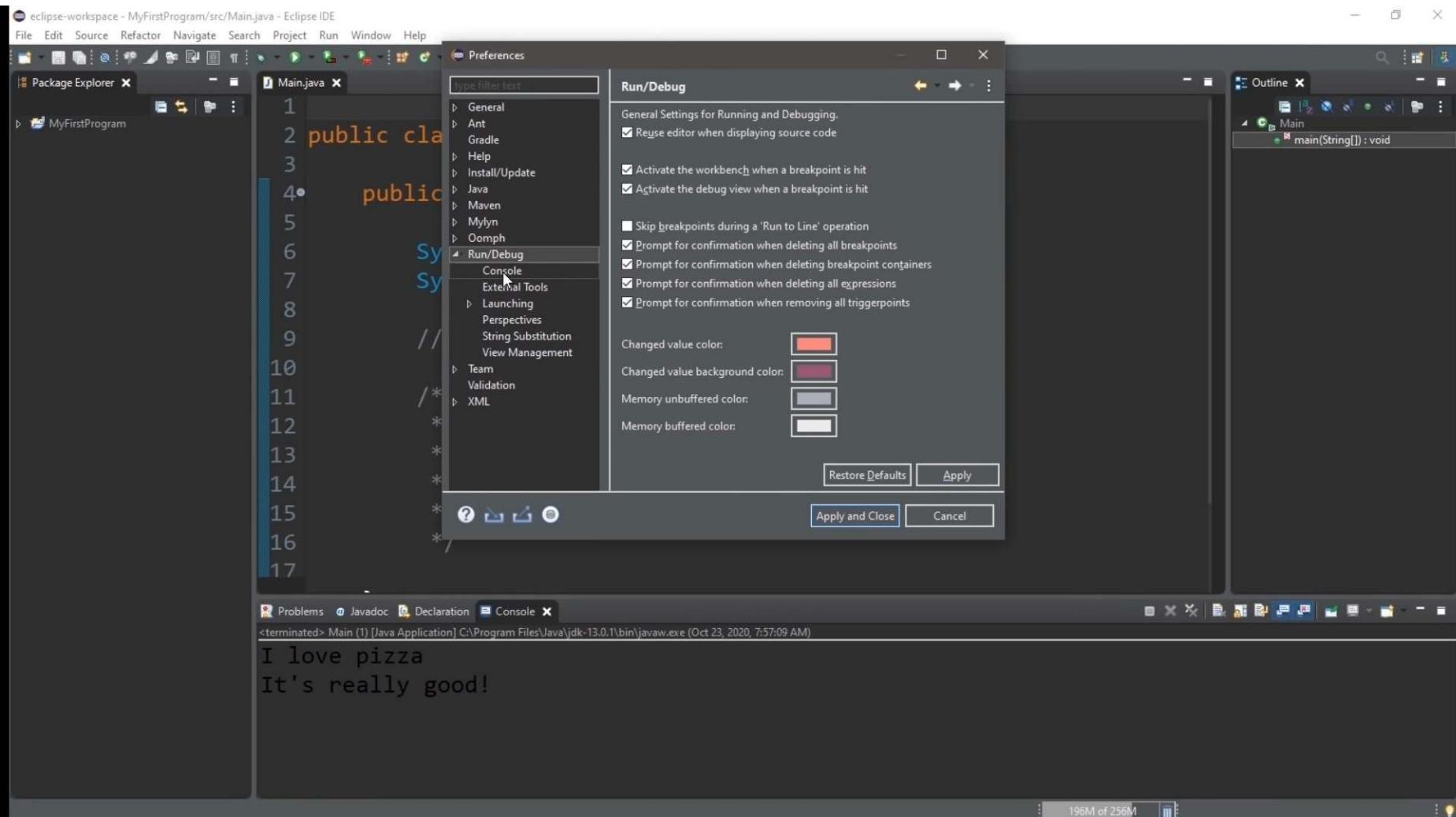
The screenshot shows the Eclipse IDE interface with a Java program named `Main.java` open in the editor. The code contains a `main` method that prints two strings to the console using `System.out.println`. The IDE also displays the `Outline` view, which shows the `main` method. The `Console` view at the bottom shows the output of the program: `I love pizza` and `It's really good!`.

```
1  package MyFirstProgram;
2  public class Main {
3      public static void main(String[] args) {
4          System.out.println("I love pizza");
5          System.out.println("It's really good!");
6
7          // This is a comment
8
9          /*
10         * This
11         * is
12         * a
13         * comment
14         */
15     }
16  }
```

Output in Console:

```
I love pizza
It's really good!
```





eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Package Explorer X Main.java X Preferences

Main.java

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5     }  
6 }
```

Console

Debug Console Settings:
 Fixed width console
 Maximum character width: 80000
 Limit console output
 Console buffer size (characters): 80000
 Displayed tab width: 8
 Enable auto scroll lock
 Show when program writes to standard out
 Show when program writes to standard error

Standard Out text color: █
Standard Error text color: █
Standard In text color: █
Background color: █

Interpret ASCII control characters
 Interpret Carriage Return (r) as control character

Restore Defaults Apply

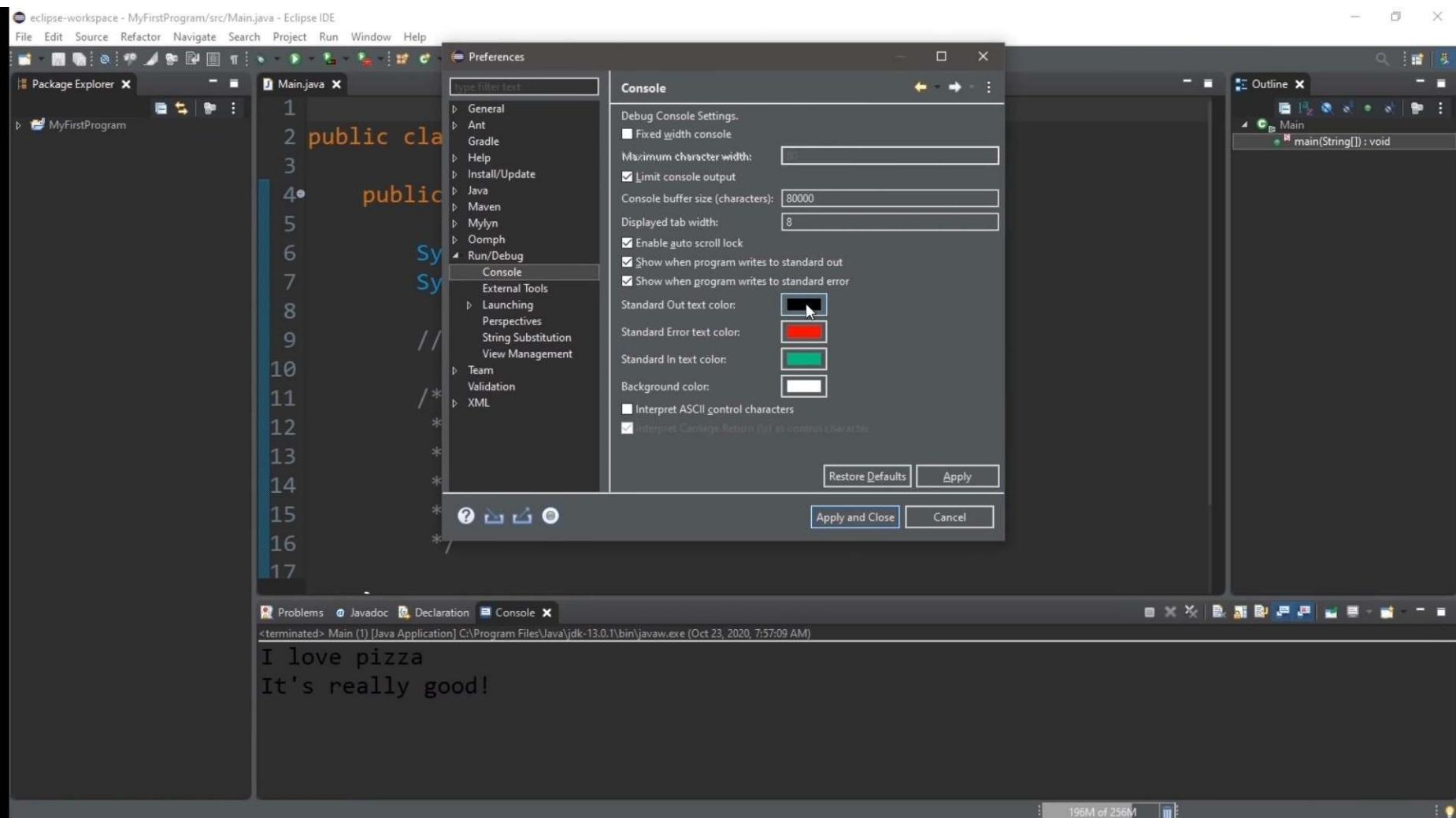
Apply and Close Cancel

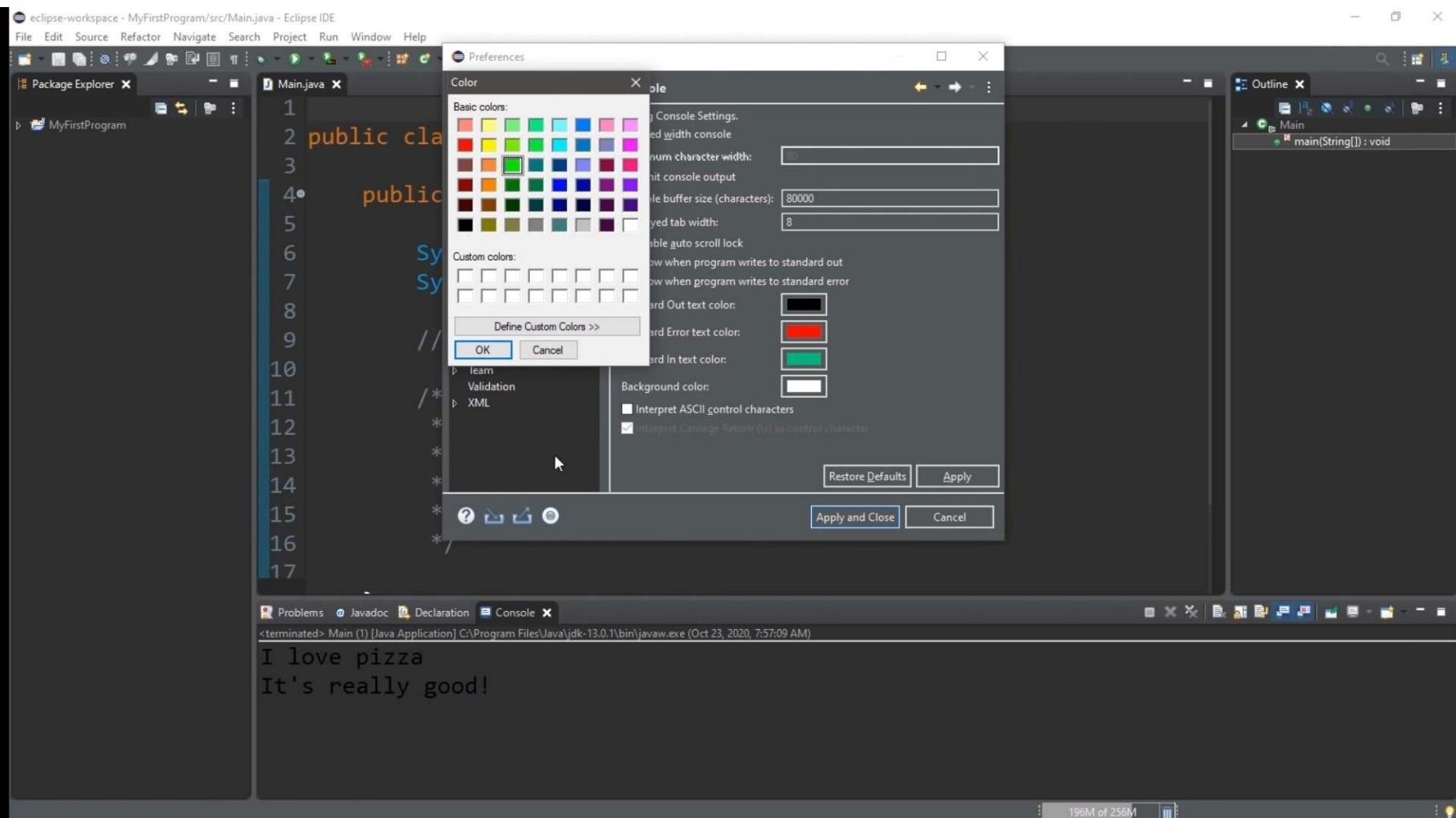
Problems Javadoc Declaration Console X

<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:57:09 AM)

I love pizza
It's really good!

196M of 256M





eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Package Explorer X Main.java X

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5     }  
6 }  
7 //
```

Preferences

Color

Basic colors:

Custom colors:

Define Custom Colors >>

OK Cancel

Team Validation XML

Background color:

Interpret ASCII control characters Interpret Carriage Return (v) as control character

Restore Defaults Apply

Apply and Close Cancel

Outline X

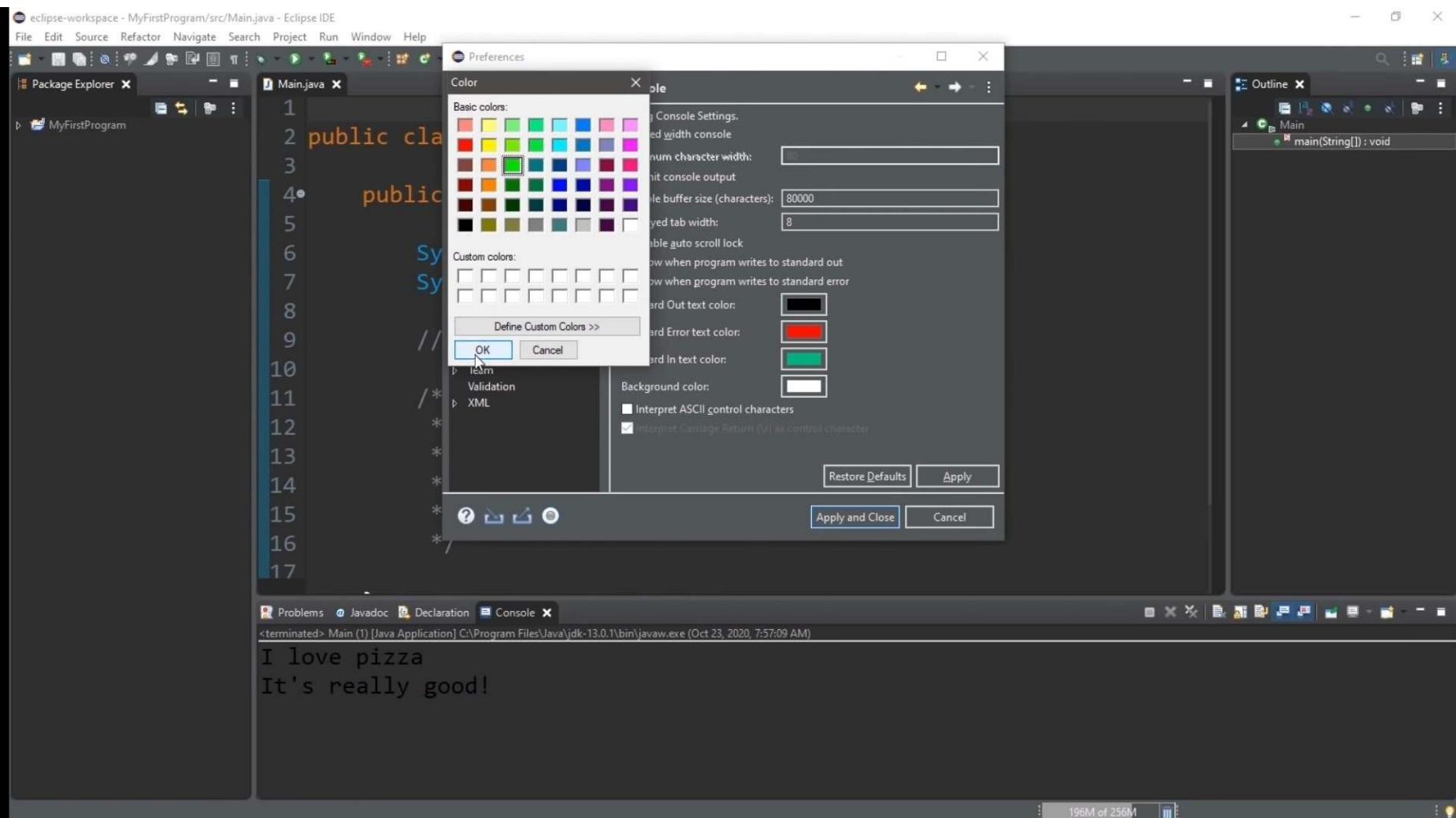
Main main(String[]) : void

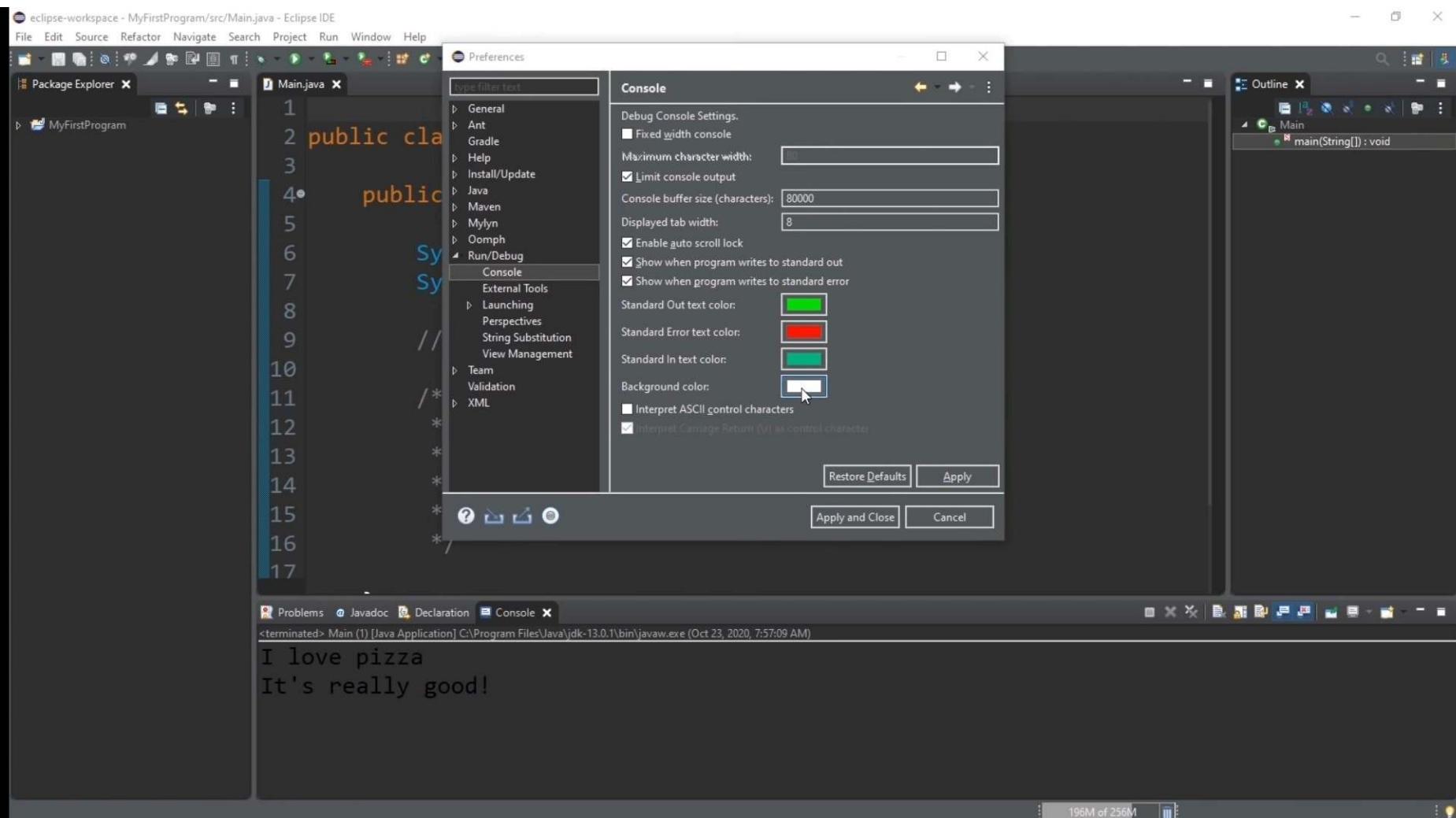
Problems Javadoc Declaration Console X

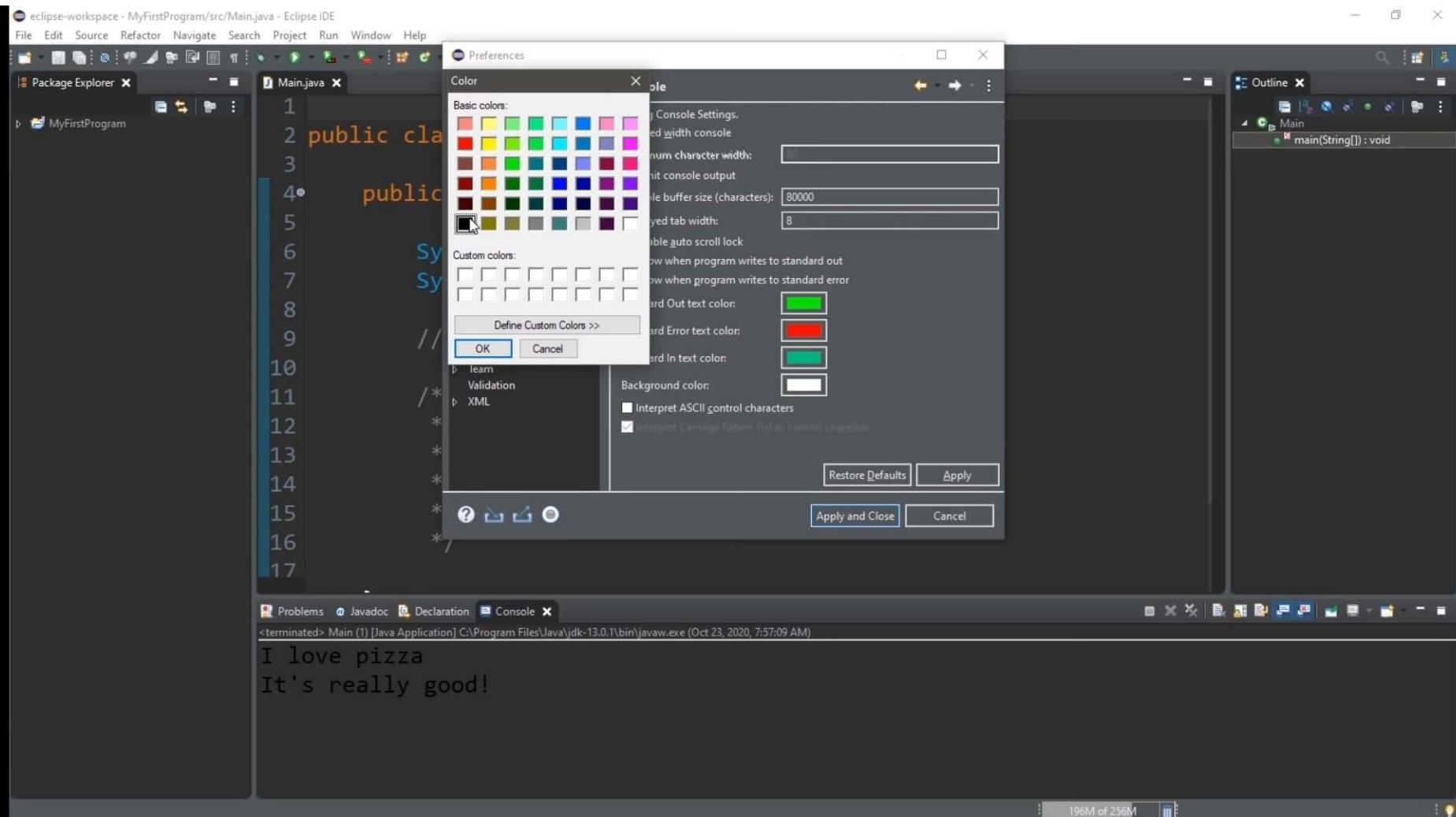
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 7:57:09 AM)

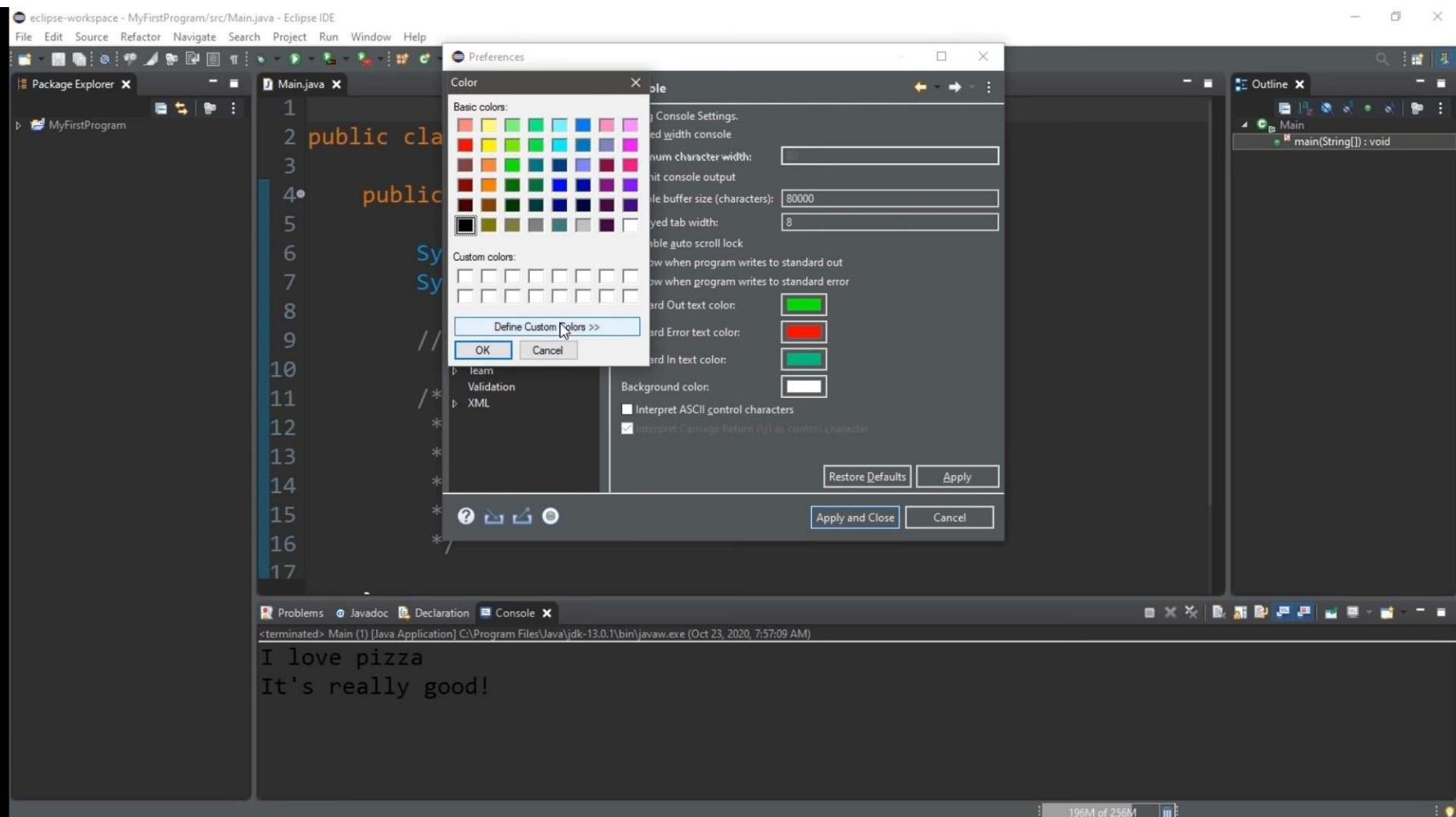
I love pizza
It's really good!

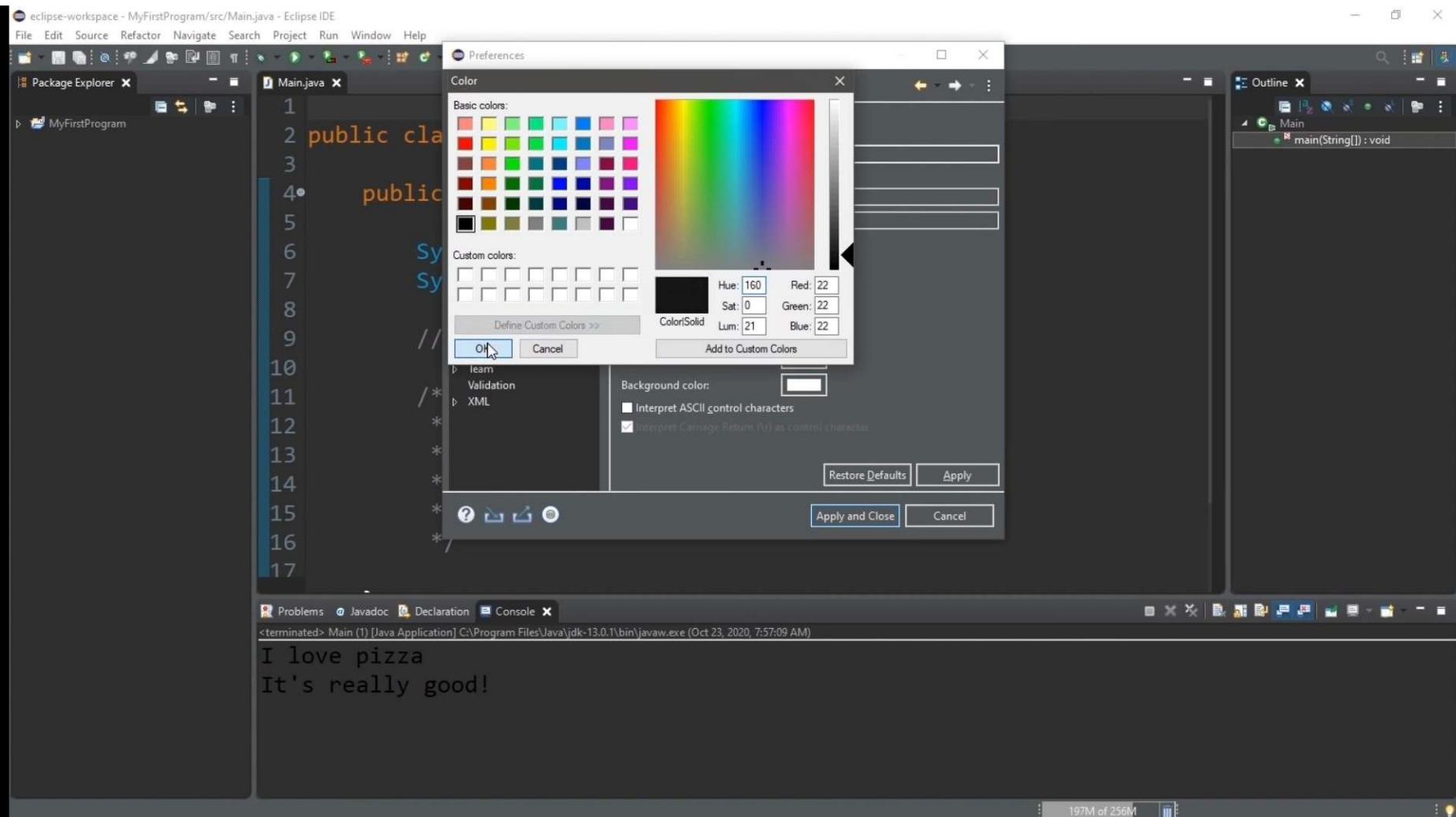
196M of 256M

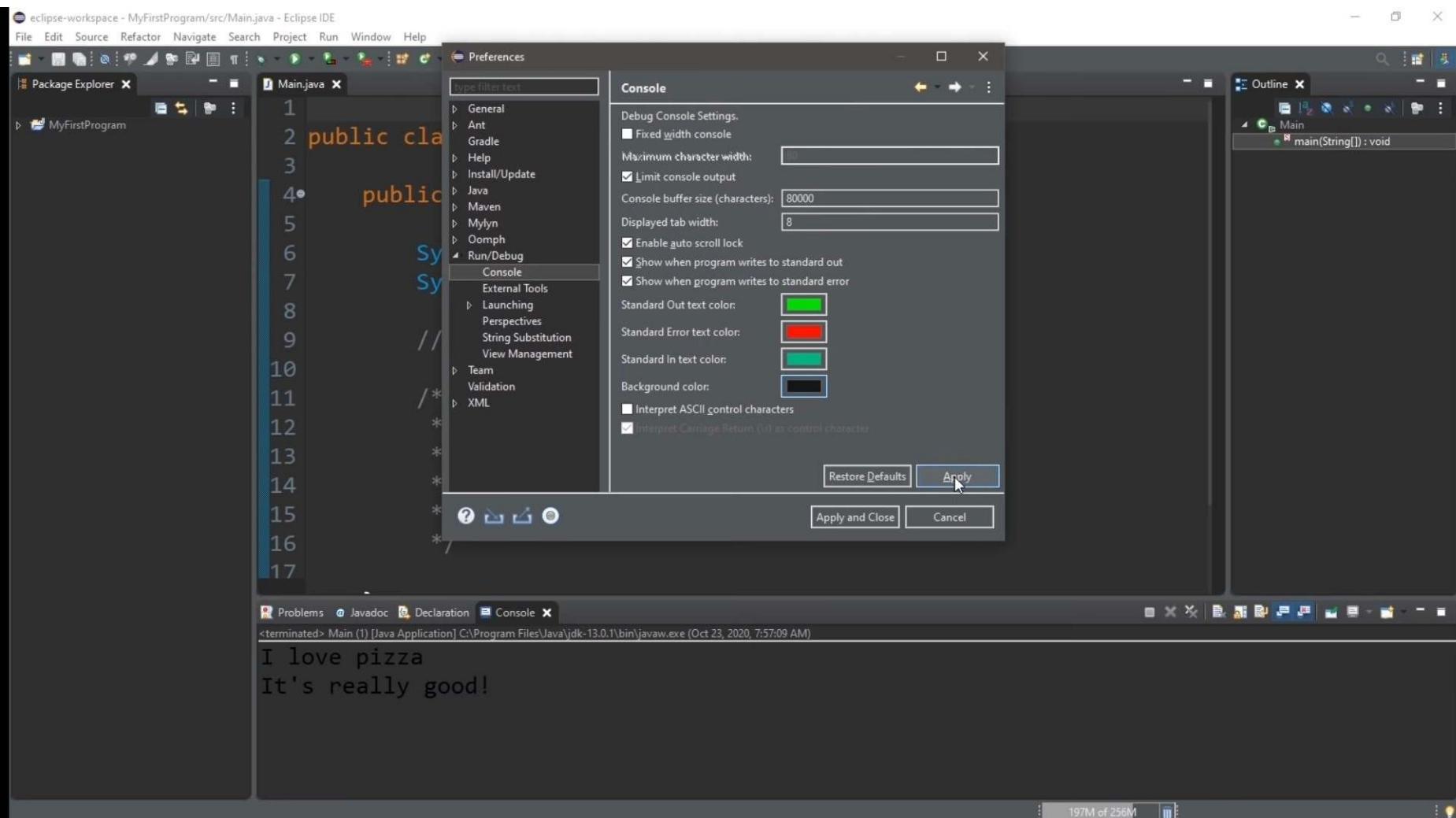






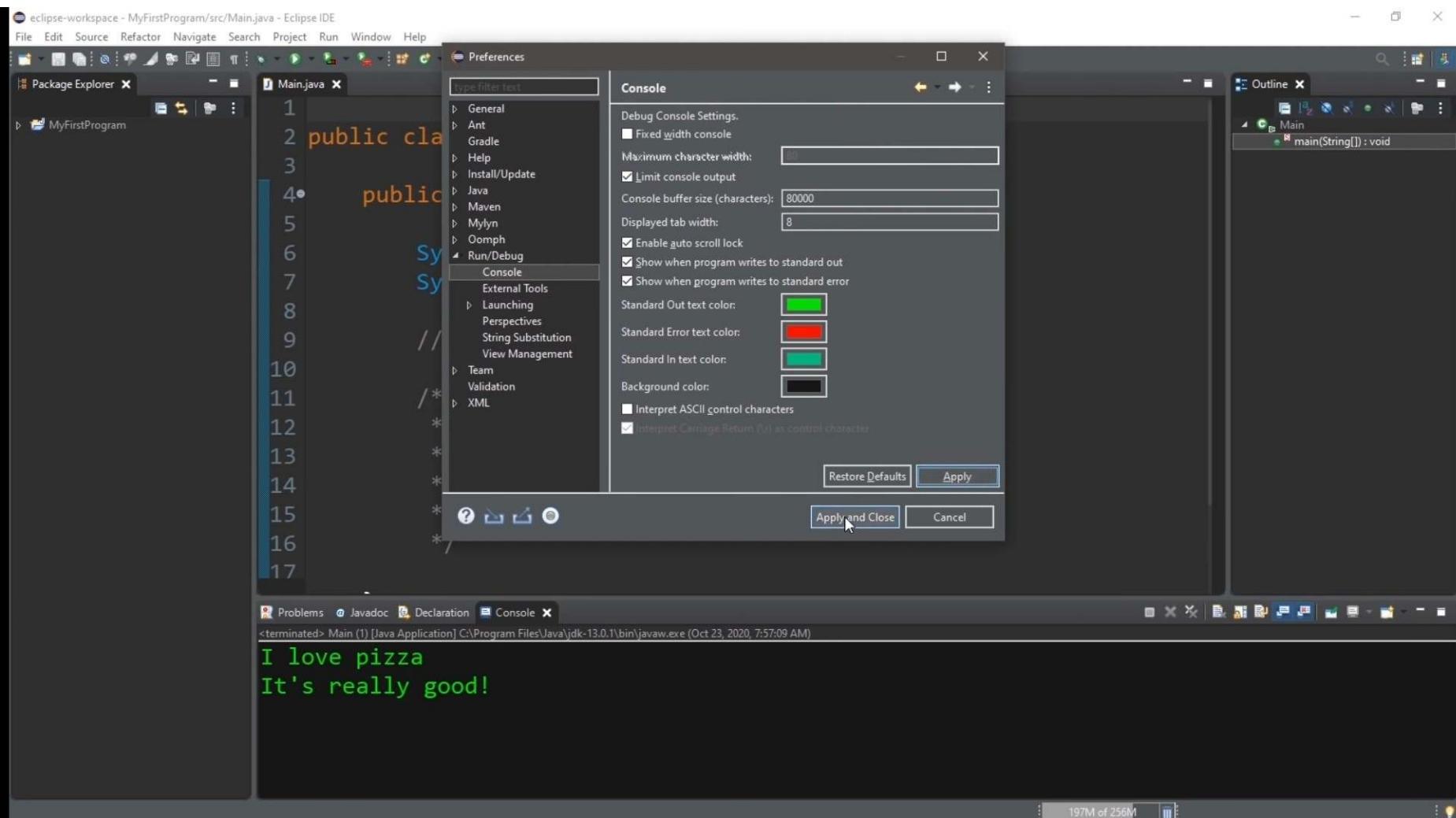




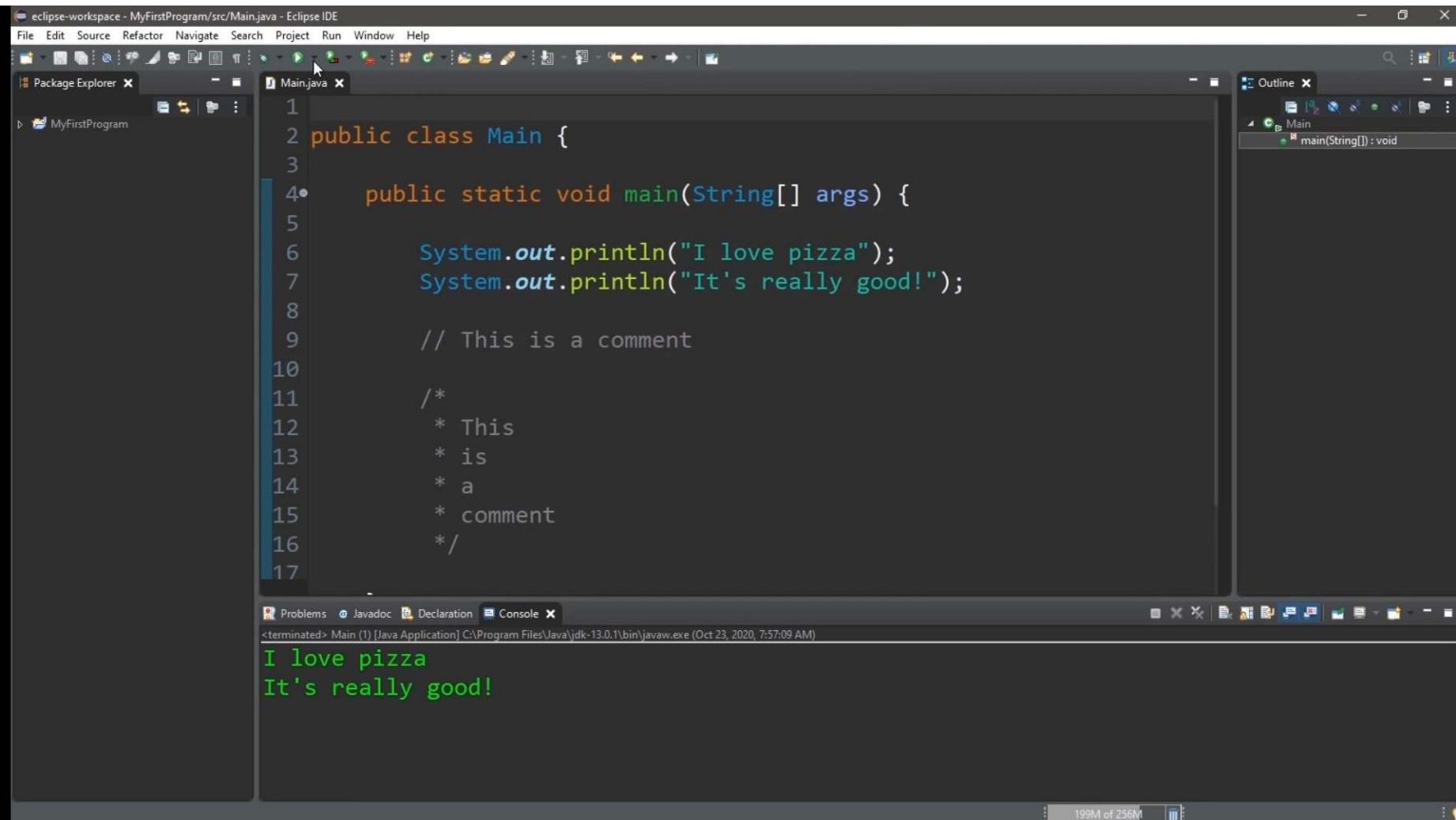


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The screenshot shows the Eclipse IDE interface with a Java project named "MyFirstProgram". The "Main.java" file is open in the editor, displaying the following code:

```
1  public class Main {  
2  
3      public static void main(String[] args) {  
4  
6          System.out.println("I love pizza");  
7          System.out.println("It's really good!");  
8  
9          // This is a comment  
10  
11         /*  
12             * This  
13             * is  
14             * a  
15             * comment  
16             */  
17
```

The "Console" view at the bottom shows the output of the program:

```
I love pizza  
It's really good!
```

The "Outline" view on the right shows the class structure:

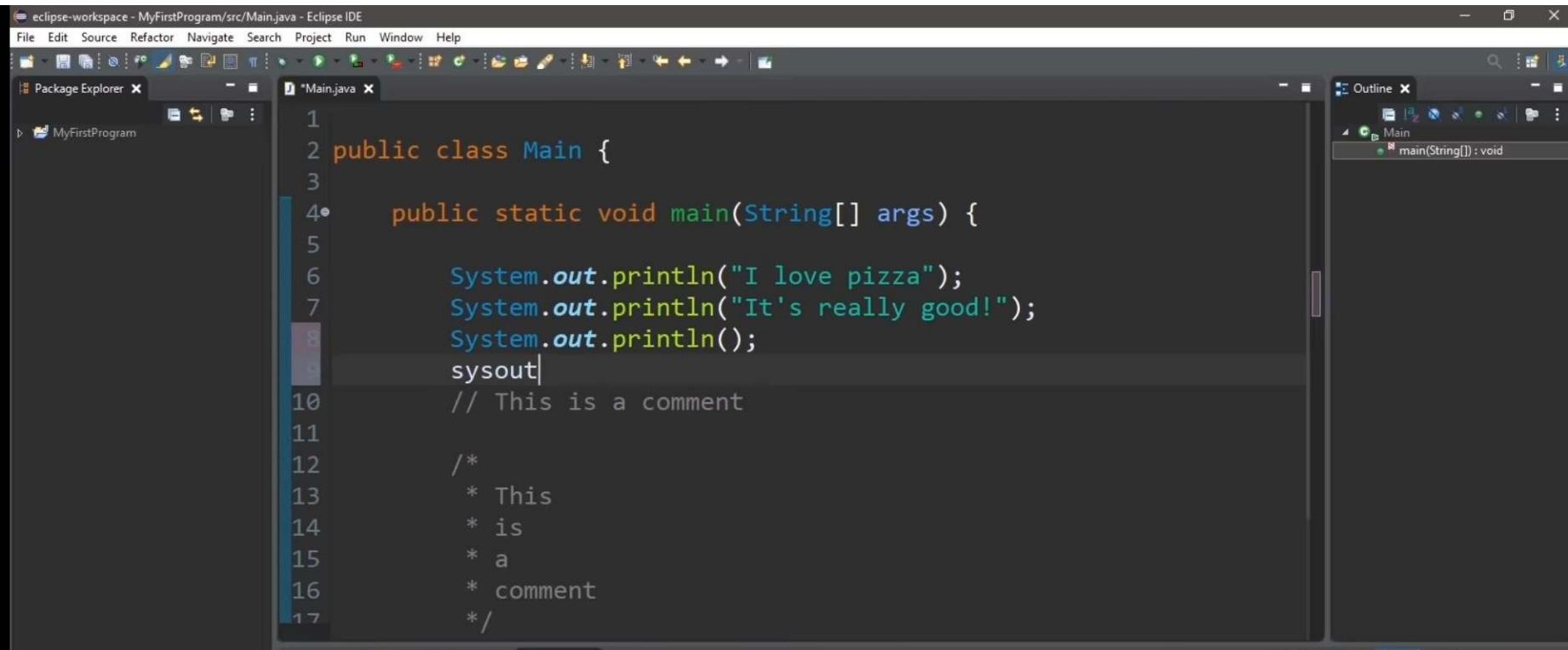
- Main
- main(String[])



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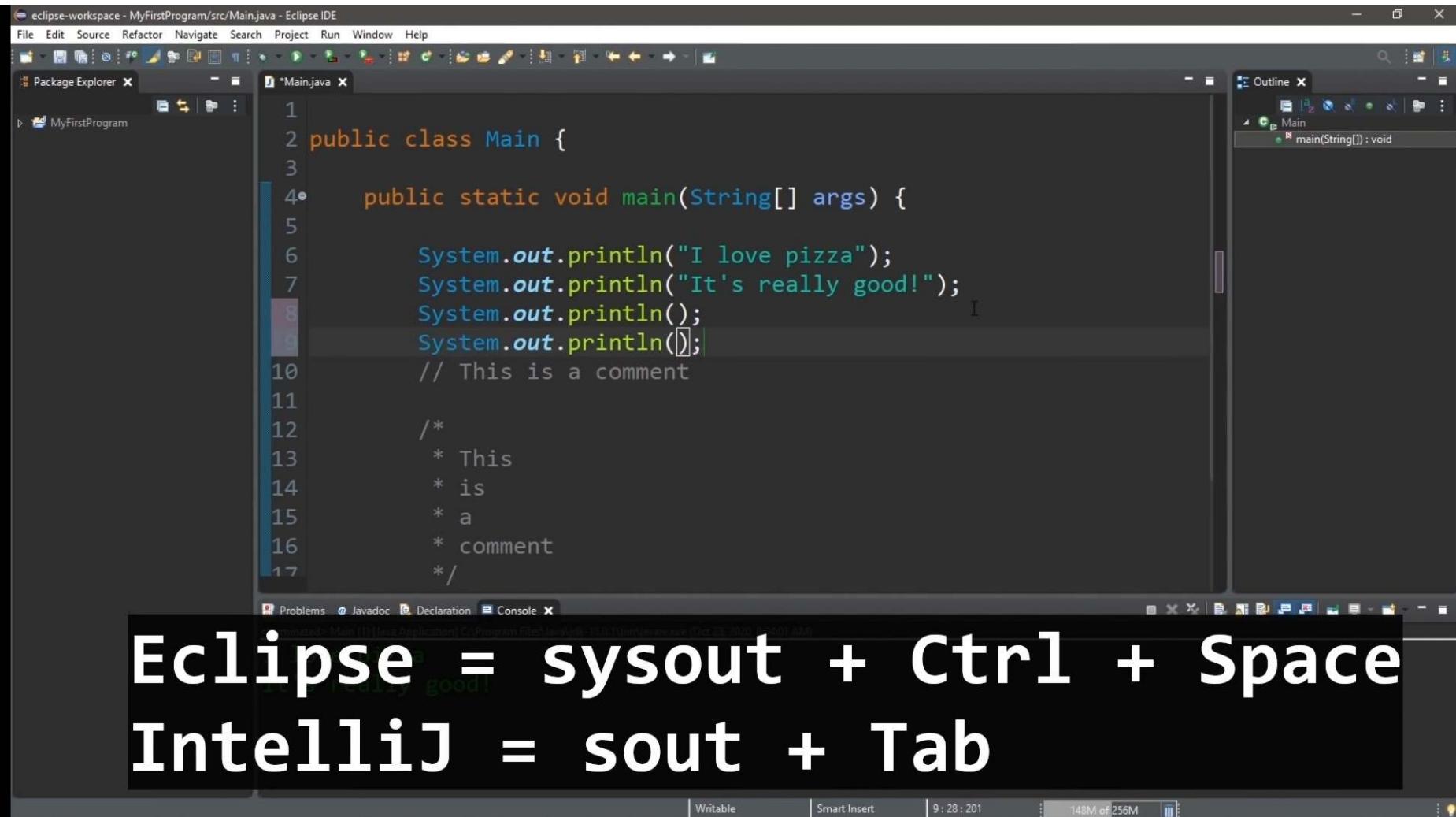


The screenshot shows the Eclipse IDE interface with a Java file named Main.java open. The code prints three lines of text and then prints an empty line. A cursor is positioned at the start of the word 'sysout' in the eighth line. The Eclipse interface includes a Package Explorer, Outline, and various toolbars and status bars.

```
1
2 public class Main {
3
4     public static void main(String[] args) {
5
6         System.out.println("I love pizza");
7         System.out.println("It's really good!");
8         System.out.println();
9         sysout
10        // This is a comment
11
12        /*
13         * This
14         * is
15         * a
16         * comment
17         */
```

Eclipse = sysout + Ctrl + Space
IntelliJ = sout + Tab





eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X Main.java X Outline X

Main.java

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5         System.out.println();  
6         System.out.println();  
7         // This is a comment  
8         /*  
9             * This  
10            * is  
11            * a  
12            * comment  
13        */  
14    }  
15 }
```

Outline X

Main

main(String[]): void

Problems Javadoc Declaration Console X

Eclipse = sysout + Ctrl + Space

IntelliJ = sout + Tab

Writable Smart Insert 9:28:201 148M of 256M

SUBSCRIBE

DO IT!!!

eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Undo Typing Ctrl+Z
Redo Typing Ctrl+Y
Cut Ctrl+X
Copy Ctrl+C
Copy Qualified Name Ctrl+V
Paste Ctrl+V
Delete Delete
Select All Ctrl+A
Expand Selection To >
Toggle Block Selection Alt+Shift+A
Find/Replace... Ctrl+F
Find Next Ctrl+K
Find Previous Ctrl+Shift+K
Incremental Find Next Ctrl+J
Incremental Find Previous Ctrl+Shift+J
Add Bookmark...
Add Task...
Smart Insert Mode Ctrl+Shift+Insert
Show Tooltip Description F2
Content Assist >
Word Completion Alt+/
Quick Fix Ctrl+1
Set Encoding...

```
public class Main {  
  
    public static void main(String[] args) {  
  
        System.out.println("I love pizza");  
        System.out.println("It's really good!");  
        System.out.println();  
        System.out.println();  
  
        // This is a comment  
  
        /*  
         * This  
         * is  
         * a  
         * comment  
        */  
    }  
}
```

1 7

Problems Javadoc Declaration Console

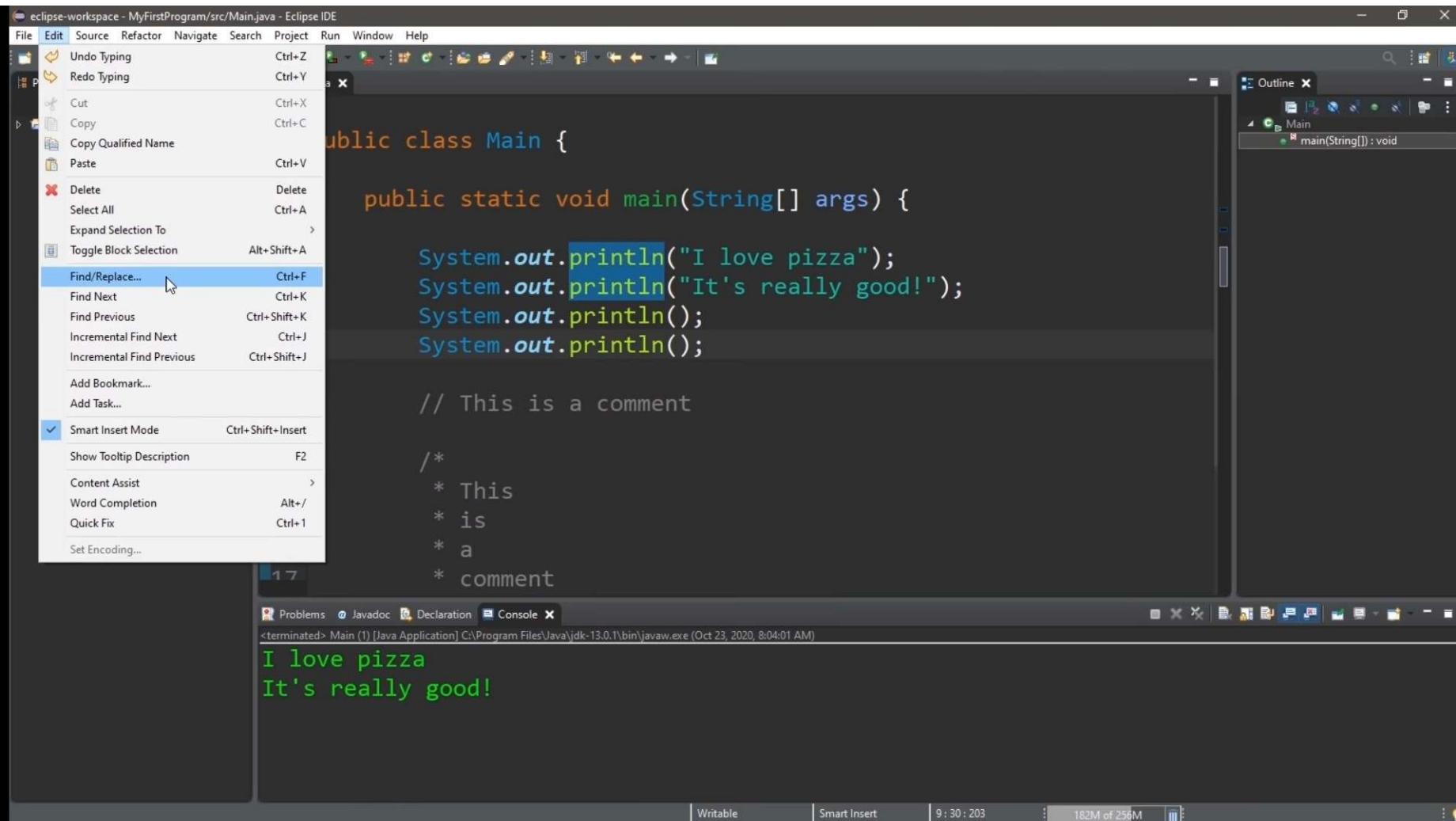
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2020, 8:04:01 AM)

I love pizza
It's really good!

Writable Smart Insert 9:30:203 182M of 258M

Outline

Main main(String[]): void



The screenshot shows the Eclipse IDE interface with a Java project named 'MyFirstProgram'. The 'Main.java' file is open in the editor, displaying the following code:

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5         System.out.println();  
6         System.out.println();  
7     }  
8     // This is a comment  
9     /*  
10     * This  
11     * is  
12     * a  
13     * comment  
14     */  
15 }
```

The code contains several `System.out.println()` statements that output text to the console. The output window shows the results of the program execution:

```
I love pizza  
It's really good!
```

A 'Find/Replace' dialog box is open in the center of the screen, with the following settings:

- Find: `println`
- Replace with: (empty)
- Direction: Forward
- Scope: All
- Options:
 - Case sensitive:
 - Wrap search:
 - Whole word:
 - Incremental:
 - Regular expressions:
- Buttons:
 - Find
 - Replace/Find
 - Replace
 - Replace All
 - Close

[SUBSCRIBE](#)

eclipse-workspace - MyFirstProgram/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X Main.java X Outline X

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("I love pizza");  
4         System.out.println("It's really good!");  
5         System.out.println();  
6         System.out.println();  
7     }  
8     // This is a comment  
9     /*  
10     * This  
11     * is  
12     * a  
13     * comment  
14     */  
15 }
```

Find/Replace

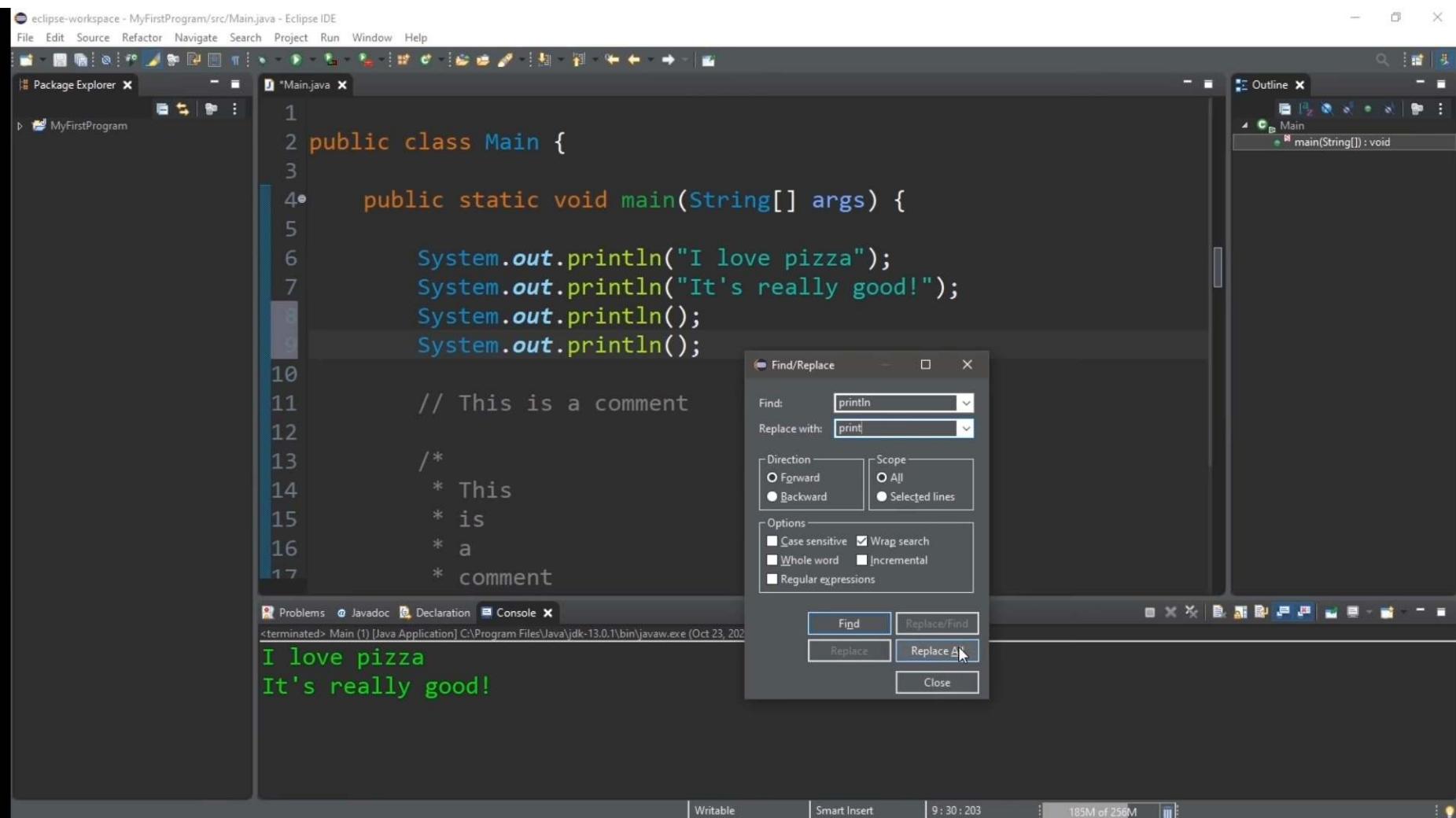
Find: println
Replace with: print

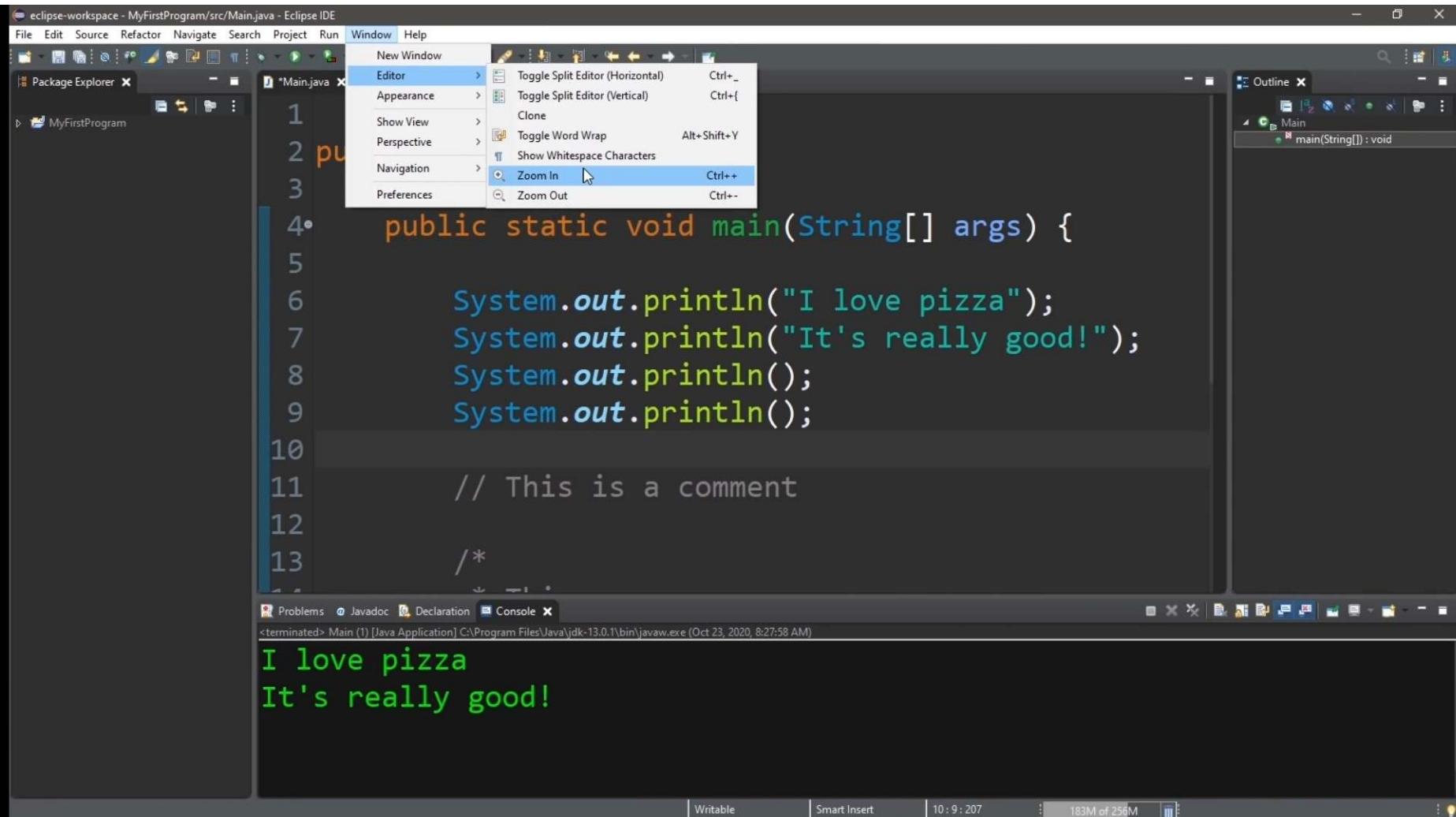
Direction: Backward
Scope: All
Options: Case sensitive, Wrap search, Whole word, Incremental, Regular expressions

Find Replace/Find Replace A Close

Problems Javadoc Declaration Console X
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-13.0.1\bin\javaw.exe (Oct 23, 2022)
I love pizza
It's really good!

Writable Smart Insert 9:30:203 185M of 258M





The screenshot shows the Eclipse IDE interface with a Java project named "MyFirstProgram". The "Main.java" file is open in the editor, displaying the following code:

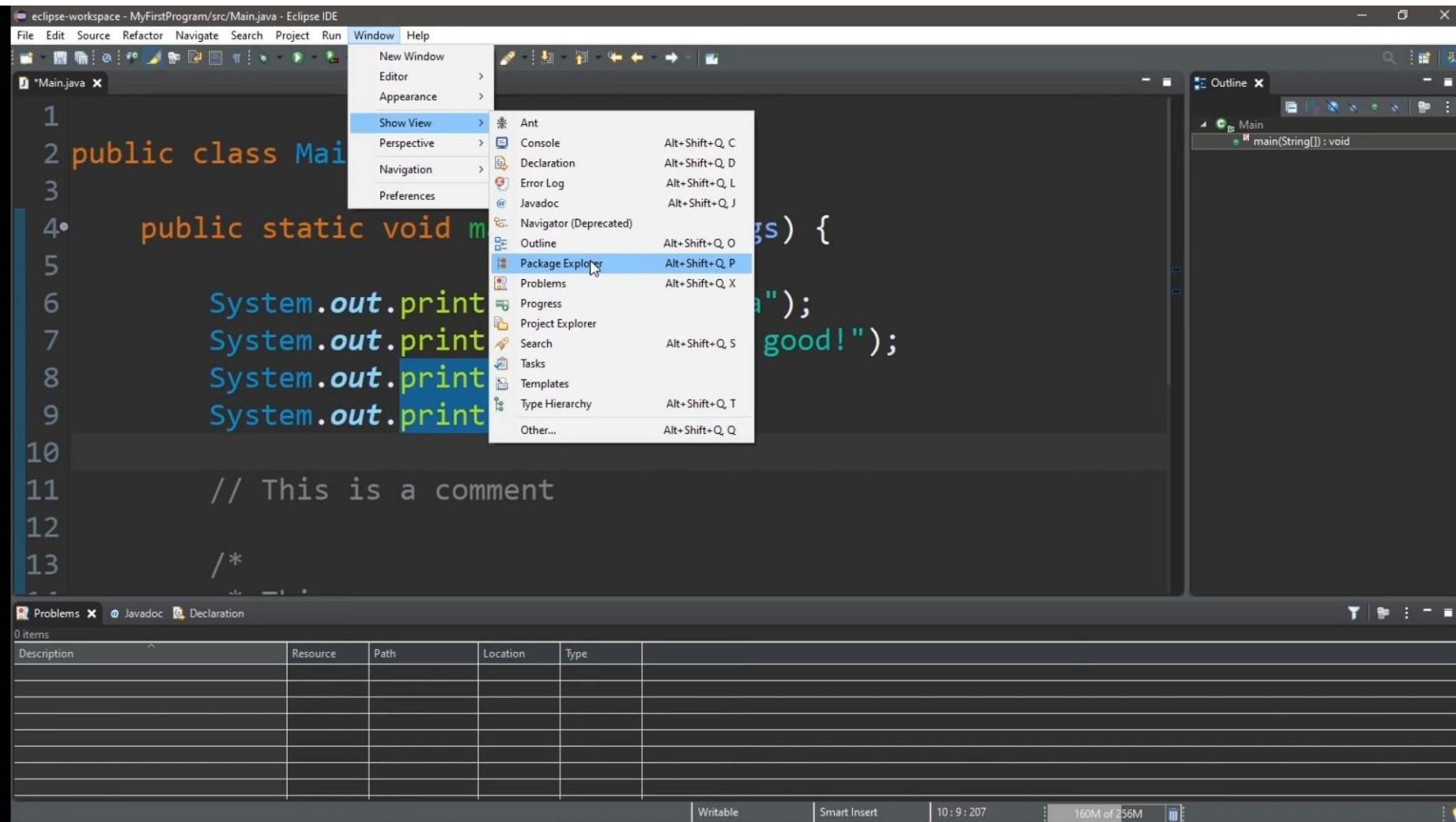
```
1  public class Main {
2      public static void main(String[] args) {
3          System.out.println("I love pizza");
4          System.out.println("It's really good!");
5          System.out.println();
6          System.out.println();
7
8          // This is a comment
9
10         /*
11
12
13     */
```

A context menu is open over the code, with the "Zoom In" option selected. The "Console" view shows the program's output:

```
I love pizza
It's really good!
```

DO IT!!!

SUBSCRIBE

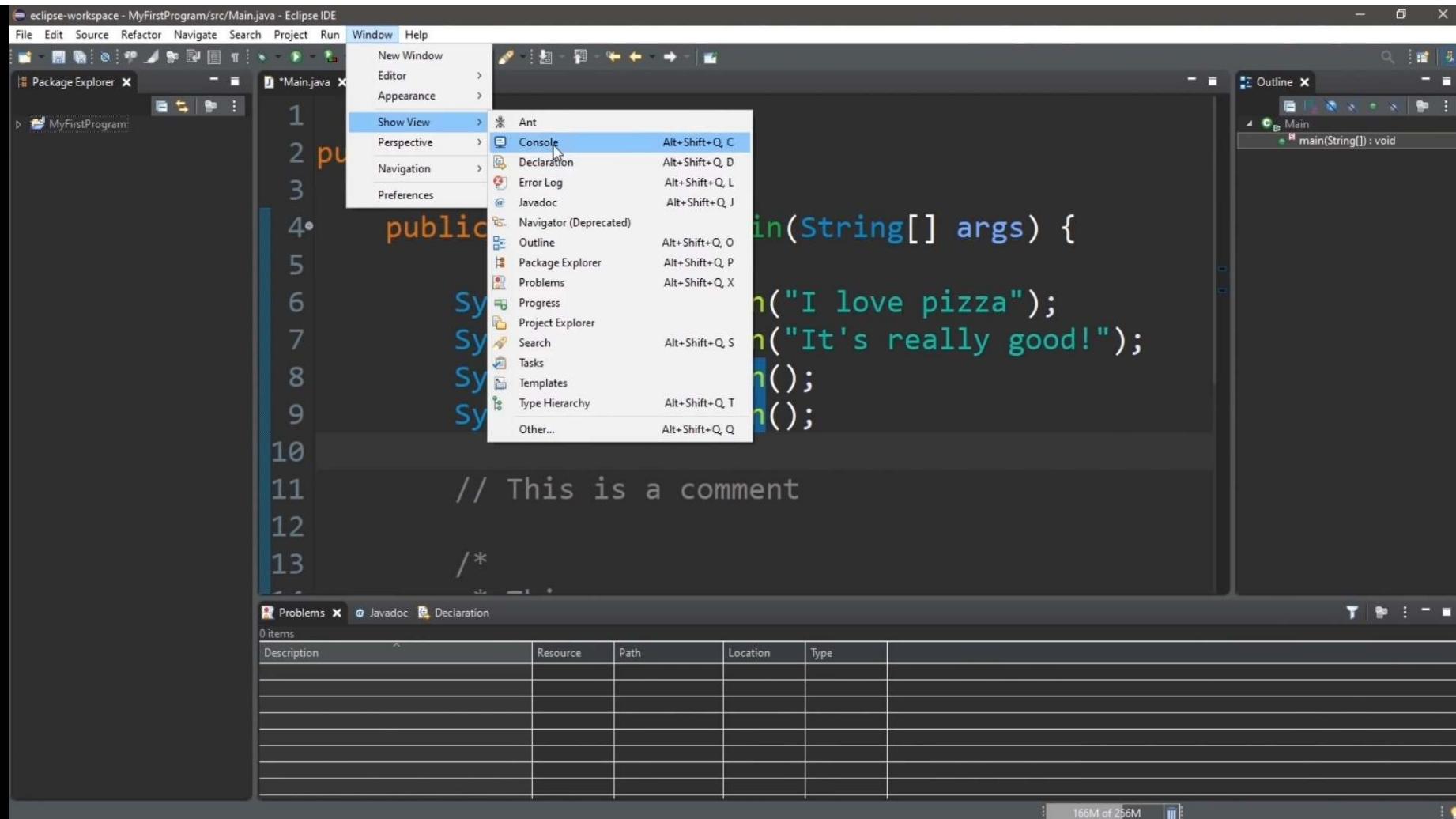


The screenshot shows the Eclipse IDE interface with a dark theme. The main window displays a Java file named `Main.java` containing the following code:

```
1 public class Main {
2
3     public static void main(String[] args) {
4         System.out.print("Hello, ");
5         System.out.print("World!");
6         System.out.print(" Goodbye!");
7         System.out.println(" See you later!");
8     }
9
10    // This is a comment
11
12    /*
13     * This is a multi-line
14     * comment
15     */
16 }
```

The `System.out.print` statements are highlighted in blue. The `Window` menu is open, showing various views and perspectives. The `Package Explorer` option is highlighted with a blue selection bar. The `Outline` view on the right shows the class `Main` and its `main` method.





The screenshot shows the Eclipse IDE interface with a Java code editor open. The code in the editor is:

```
1  public class Main {
2      public static void main(String[] args) {
3          System.out.println("I love pizza");
4          System.out.println("It's really good!");
5          System.out.println();
6          System.out.println();
7
8          // This is a comment
9
10         /*
11
12
13     */
```

The 'Window' menu is open, and the 'Console' option is selected, as indicated by the highlighted blue box. The 'Console' option is also listed in the submenu with its keyboard shortcut, Alt+Shift+Q, C.

The Eclipse interface includes the following components:

- Window Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help.
- Toolbar:** Standard Eclipse icons for file operations.
- Package Explorer:** Shows the project 'MyFirstProgram'.
- Editor:** Shows the Java code in 'Main.java'.
- Outline View:** Shows the class 'Main' and its method 'main(String[])'.
- Problems View:** Shows 0 items.
- Javadoc View:** Shows 0 items.
- Declaration View:** Shows 0 items.



variable

(a placeholder for a value that
behaves as the value it contains)



SUBSCRIBE



DO IT!!!

x = 123

y = "Hello"

z = true



SUBSCRIBE



DO IT!!!

<u>data type</u>	<u>size</u>	<u>primitive/ reference</u>	<u>value</u>
★ boolean	1 bit	primitive	true or false
byte	1 byte	primitive	-128 to 127
short	2 bytes	primitive	-32,768 to 32,767
★ int	4 bytes	primitive	-2 billion to 2 billion
long	8 bytes	primitive	-9 quintillion to 9 quintillion
float	4 bytes	primitive	fractional number up to 6-7 digits ex. 3.141592f
★ double	8 bytes	primitive	fractional number up to 15 digits ex. 3.141592653589793
★ char	2 bytes	primitive	single character/letter/ASCII value ex. 'f'
★ String	varies	reference	a sequence of characters ex. "Hello world!"



primitive vs reference

- 8 types (boolean, byte, etc.)
 - stores data
 - can only hold 1 value
 - less memory
 - fast
- unlimited (user defined)
 - stores an address
 - could hold more than 1 value
 - more memory
 - slower



SUBSCRIBE



DO IT!!!

how to create a variable



SUBSCRIBE



DO IT!!!



```
int x;
```

declaration

+

```
x = 123;
```

assignment

=

```
int x = 123;
```

initialization



SUBSCRIBE



DO IT!!!

scanner
nextLine() Bro\n



DO IT!!!

scanner
nextLine()



DO IT!!!

scanner

nextInt()

18\n



DO IT!!!

scanner
nextInt()
\n



DO IT!!!

scanner
nextLine() \n



DO IT!!!