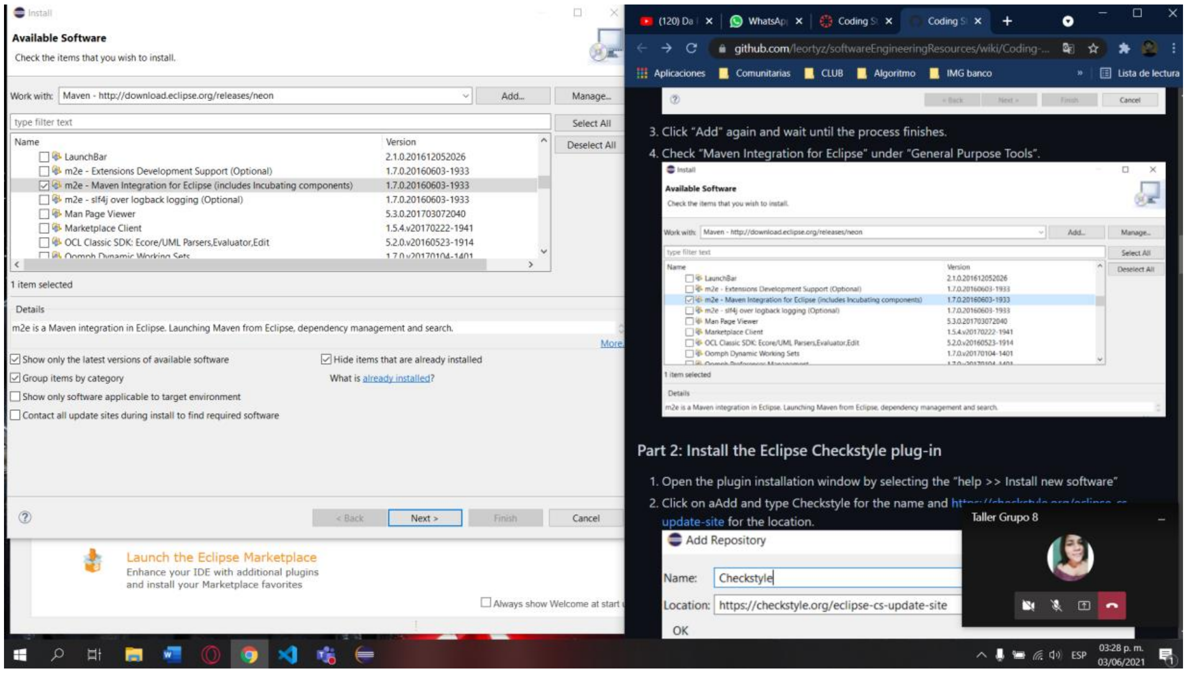
LAB REPORT #1

Student Name: Rogwi Cajas Correa **Date:** 04/06/2021

1. **Source Code (Repository):**
   https://github.com/RogwiCajas/CodingStandards.git
2. **Process:**
   - **Part1: Maven Installation**



Install

Available Software

Check the items that you wish to install.

Work with: Maven - http://download.eclipse.org/releases/neon

Name	Version
☐ LaunchBar	2.1.0.201612052026
☐ m2e - Extensions Development Support (Optional)	1.7.0.20160603-1933
☑ m2e - Maven Integration for Eclipse (includes Incubating components)	1.7.0.20160603-1933
☐ m2e - slf4j over logback logging (Optional)	1.7.0.20160603-1933
☐ Man Page Viewer	5.3.0.201703072040
☐ Marketplace Client	1.5.4.v20170222-1941
☐ OCL Classic SDK: Ecore/UML Parsers,Evaluator,Edit	5.2.0.v20160523-1914
☐ Oomph Dynamic Working Sets	1.7.0.v20170104-1401

1 item selected

Details

m2e is a Maven integration in Eclipse. Launching Maven from Eclipse, dependency management and search.

☑ Show only the latest versions of available software
☑ Hide items that are already installed
☑ Group items by category
What is already installed?
☐ Show only software applicable to target environment
☐ Contact all update sites during install to find required software

Launch the Eclipse Marketplace
Enhance your IDE with additional plugins and install your Marketplace favorites

github.com/leortyz/softwareEngineeringResources/wiki/Coding-...

3. Click "Add" again and wait until the process finishes.
4. Check "Maven Integration for Eclipse" under "General Purpose Tools".

Part 2: Install the Eclipse Checkstyle plug-in

1. Open the plugin installation window by selecting the "help >> Install new software"
2. Click on aAdd and type Checkstyle for the name and https://checkstyle.org/eclipse-cs-update-site for the location.

Add Repository

Name: Checkstyle

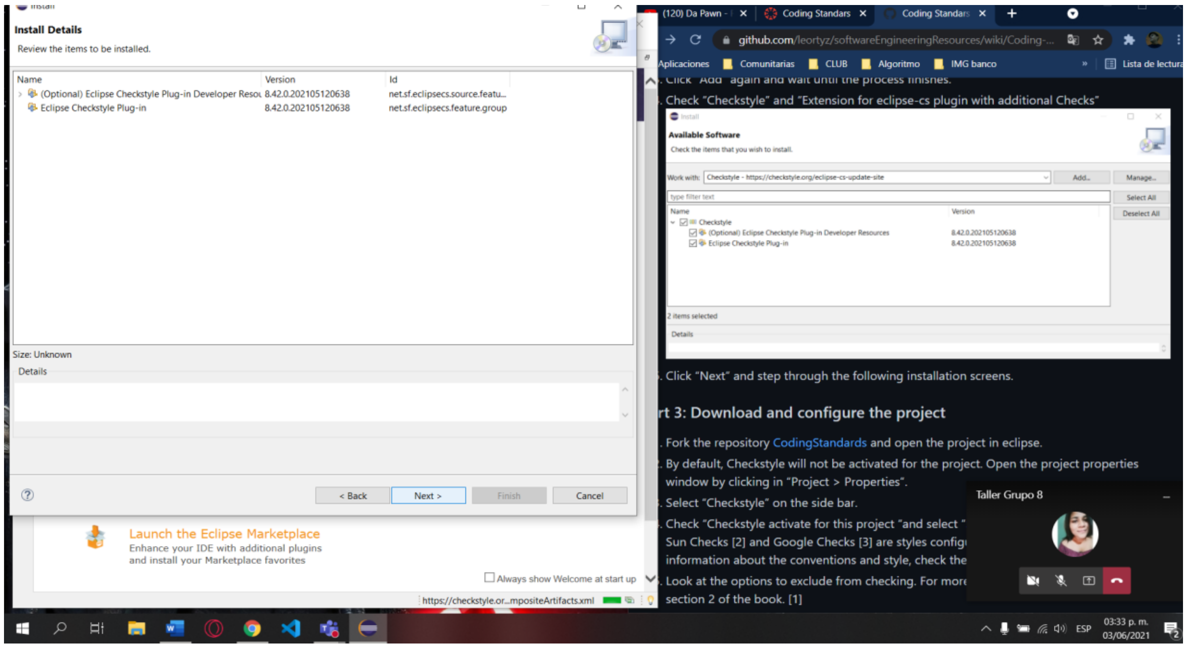
Location: https://checkstyle.org/eclipse-cs-update-site

OK

Taller Grupo 8

03:28 p. m. 03/06/2021

   - **Part2: Eclipse Checkstyle plug-in installation**



Install

Install Details

Review the items to be installed.

Name	Version	Id
(Optional) Eclipse Checkstyle Plug-in Developer Resou	8.42.0.202105120638	net.sf.eclipsecs.source.featu...
Eclipse Checkstyle Plug-in	8.42.0.202105120638	net.sf.eclipsecs.feature.group

Size: Unknown

Details

Launch the Eclipse Marketplace
Enhance your IDE with additional plugins and install your Marketplace favorites

https://checkstyle.or...mpositeArtifacts.xml

github.com/leortyz/softwareEngineeringResources/wiki/Coding-...

. Click "Add" again and wait until the process finishes.
. Check "Checkstyle" and "Extension for eclipse-cs plugin with additional Checks"

Available Software

Check the items that you wish to install.

Work with: Checkstyle - https://checkstyle.org/eclipse-cs-update-site

Name	Version
☑ Checkstyle	
☑ (Optional) Eclipse Checkstyle Plug-in Developer Resources	8.42.0.202105120638
☑ Eclipse Checkstyle Plug-in	8.42.0.202105120638

2 items selected

. Click "Next" and step through the following installation screens.

rt 3: Download and configure the project

. Fork the repository CodingStandards and open the project in eclipse.
. By default, Checkstyle will not be activated for the project. Open the project properties window by clicking in "Project > Properties".
. Select "Checkstyle" on the side bar.
. Check "Checkstyle activate for this project "and select "
Sun Checks [2] and Google Checks [3] are styles configu
information about the conventions and style, check the
. Look at the options to exclude from checking. For more
section 2 of the book. [1]

Taller Grupo 8

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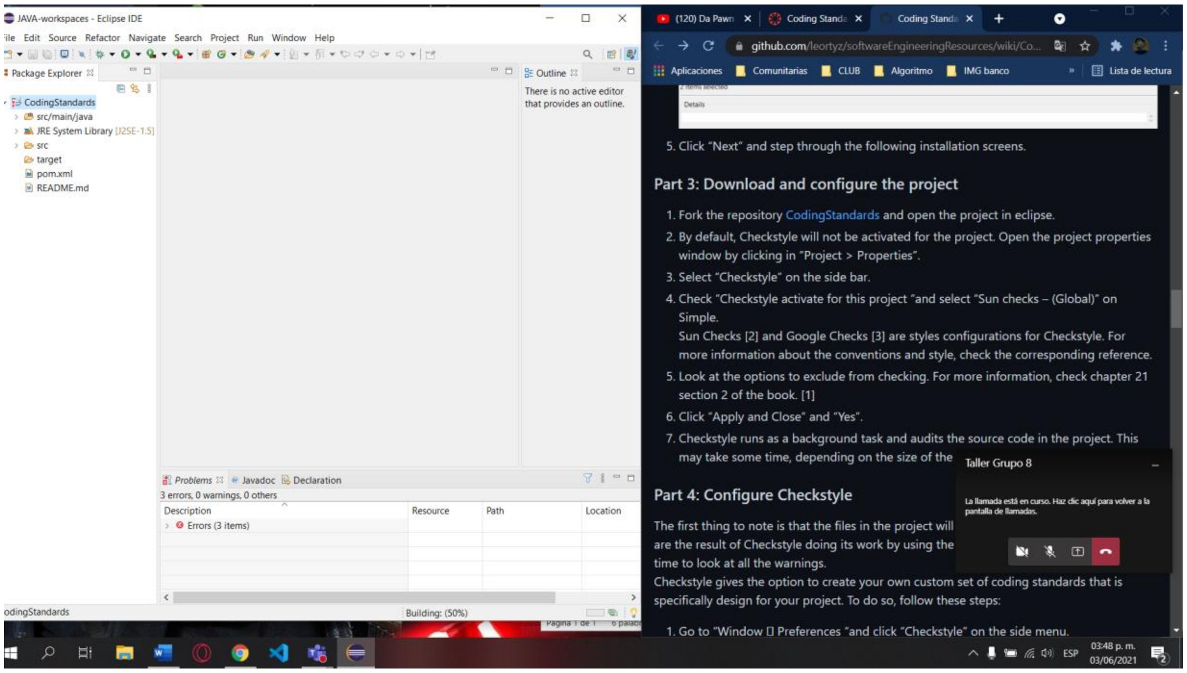
- **Part3: Project local configuration**

View on Eclipse IDE



JAVA-workspaces - Eclipse IDE

Package Explorer

- CodingStandards
  - src/main/java
  - JRE System Library [J2SE-1.5]
  - src
  - target
  - pom.xml
  - README.md

Outline: There is no active editor that provides an outline.

Problems | Javadoc | Declaration

3 errors, 0 warnings, 0 others

Description	Resource	Path	Location
Errors (3 items)			

Building: (50%)

github.com/leortyz/softwareEngineeringResources/wiki/Co...

5. Click "Next" and step through the following installation screens.

Part 3: Download and configure the project

1. Fork the repository CodingStandards and open the project in eclipse.
2. By default, Checkstyle will not be activated for the project. Open the project properties window by clicking in "Project > Properties".
3. Select "Checkstyle" on the side bar.
4. Check "Checkstyle activate for this project "and select "Sun checks – (Global)" on Simple.
   Sun Checks [2] and Google Checks [3] are styles configurations for Checkstyle. For more information about the conventions and style, check the corresponding reference.
5. Look at the options to exclude from checking. For more information, check chapter 21 section 2 of the book. [1]
6. Click "Apply and Close" and "Yes".
7. Checkstyle runs as a background task and audits the source code in the project. This may take some time, depending on the size of the

Part 4: Configure Checkstyle

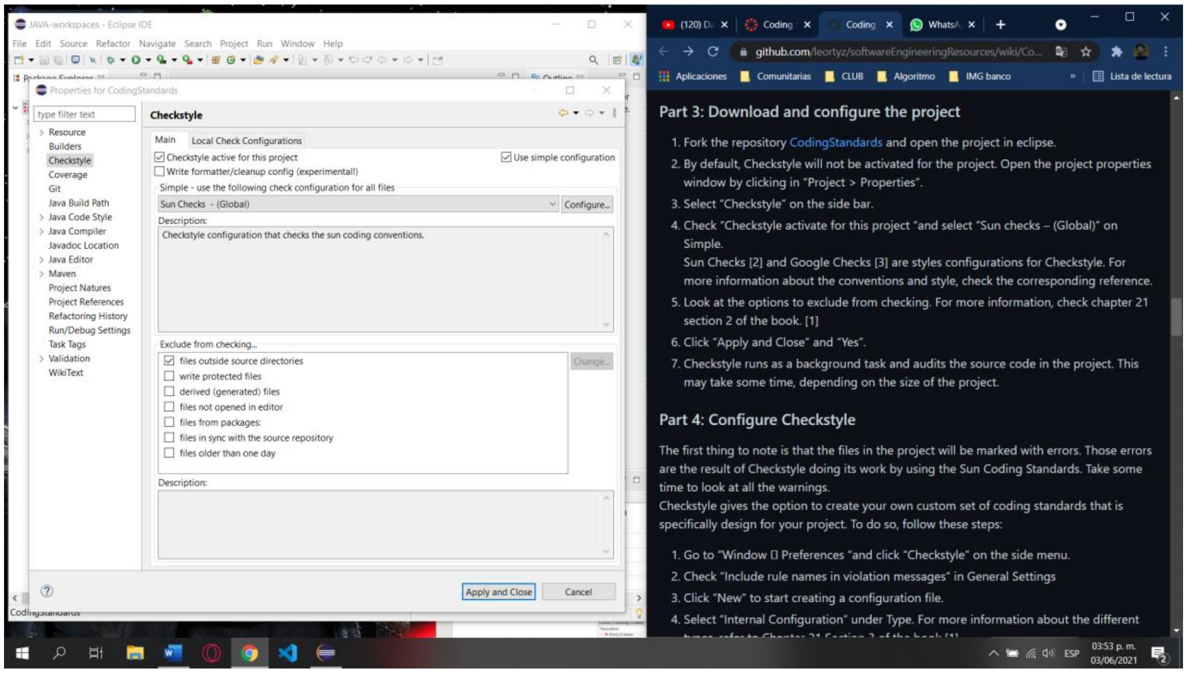
The first thing to note is that the files in the project will are the result of Checkstyle doing its work by using the time to look at all the warnings.
Checkstyle gives the option to create your own custom set of coding standards that is specifically design for your project. To do so, follow these steps:

1. Go to "Window Preferences "and click "Checkstyle" on the side menu.

Taller Grupo 8

La llamada está en curso. Haz clic aquí para volver a la pantalla de llamadas.

Properties configuration



Properties for CodingStandards

Checkstyle

Main | Local Check Configurations

- [✓] Checkstyle active for this project
- [ ] Write formatter/cleanup config (experimental!)
- [✓] Use simple configuration

Simple - use the following check configuration for all files: Sun Checks - (Global)

Description: Checkstyle configuration that checks the sun coding conventions.

Exclude from checking...

- [✓] files outside source directories
- [ ] write protected files
- [ ] derived (generated) files
- [ ] files not opened in editor
- [ ] files from packages:
- [ ] files in sync with the source repository
- [ ] files older than one day

Part 3: Download and configure the project

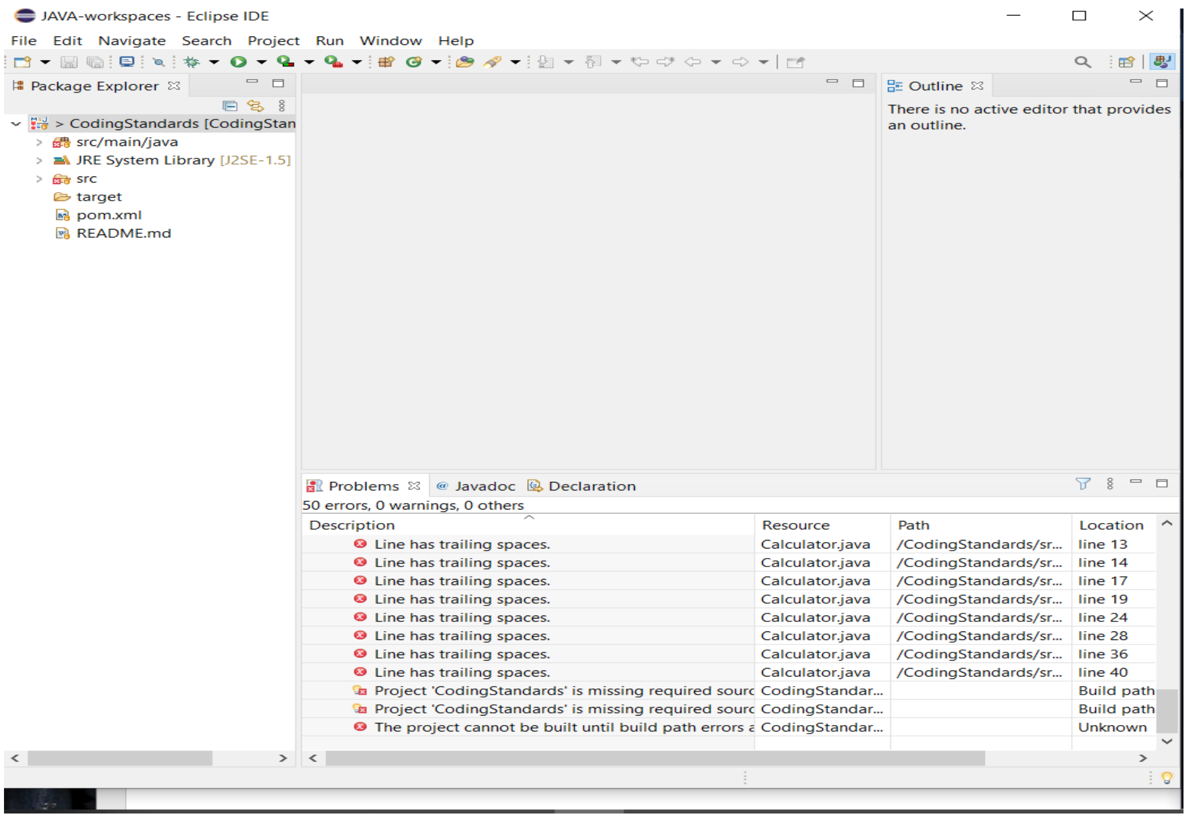
1. Fork the repository CodingStandards and open the project in eclipse.
2. By default, Checkstyle will not be activated for the project. Open the project properties window by clicking in "Project > Properties".
3. Select "Checkstyle" on the side bar.
4. Check "Checkstyle activate for this project "and select "Sun checks – (Global)" on Simple.
   Sun Checks [2] and Google Checks [3] are styles configurations for Checkstyle. For more information about the conventions and style, check the corresponding reference.
5. Look at the options to exclude from checking. For more information, check chapter 21 section 2 of the book. [1]
6. Click "Apply and Close" and "Yes".
7. Checkstyle runs as a background task and audits the source code in the project. This may take some time, depending on the size of the project.

Part 4: Configure Checkstyle

The first thing to note is that the files in the project will be marked with errors. Those errors are the result of Checkstyle doing its work by using the Sun Coding Standards. Take some time to look at all the warnings.
Checkstyle gives the option to create your own custom set of coding standards that is specifically design for your project. To do so, follow these steps:

1. Go to "Window Preferences "and click "Checkstyle" on the side menu.
2. Check "Include rule names in violation messages" in General Settings
3. Click "New" to start creating a configuration file.
4. Select "Internal Configuration" under Type. For more information about the different

- **Part4: Checkstyle Configuration**


JAVA-workspaces - Eclipse IDE

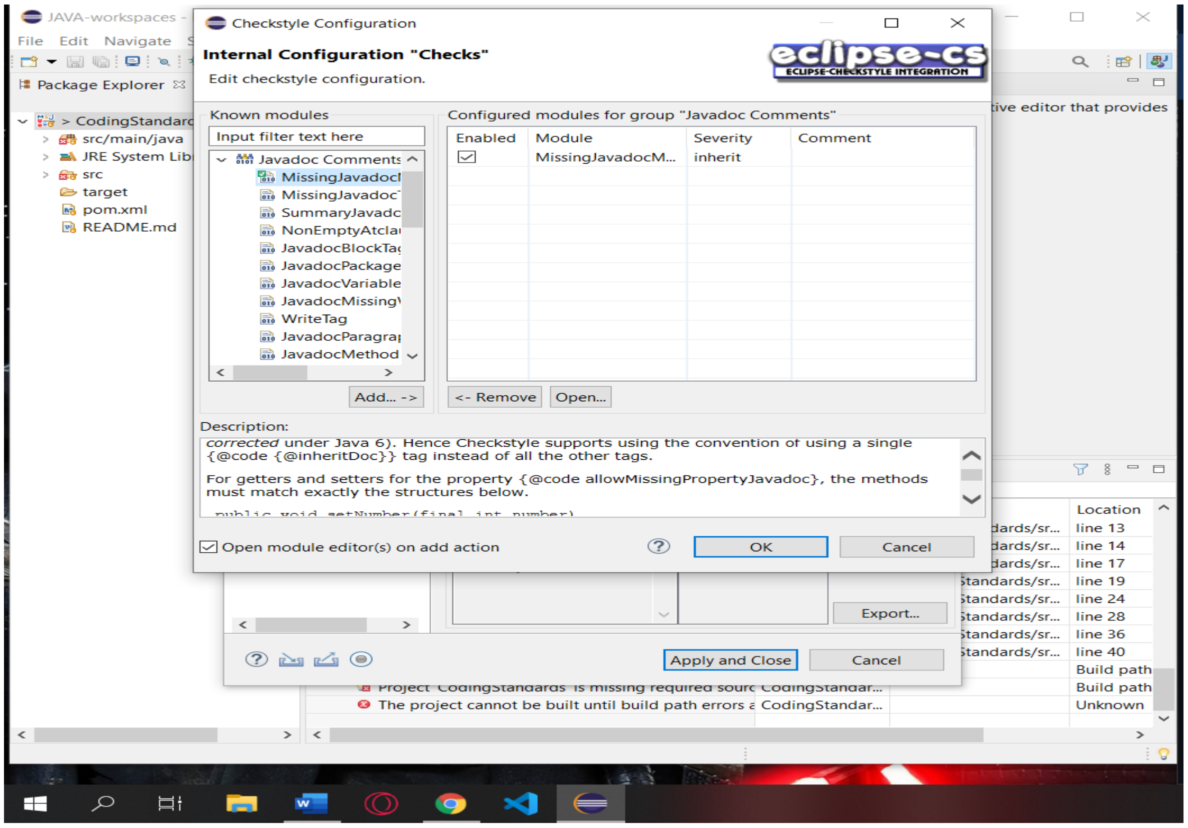
Package Explorer: CodingStandards [CodingStan, src/main/java, JRE System Library [J2SE-1.5], src, target, pom.xml, README.md

Outline: There is no active editor that provides an outline.

Problems | Javadoc | Declaration

50 errors, 0 warnings, 0 others

Description	Resource	Path	Location
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 13
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 14
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 17
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 19
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 24
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 28
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 36
Line has trailing spaces.	Calculator.java	/CodingStandards/sr...	line 40
Project 'CodingStandards' is missing required sourc	CodingStandar...		Build path
Project 'CodingStandards' is missing required sourc	CodingStandar...		Build path
The project cannot be built until build path errors a	CodingStandar...		Unknown


Checkstyle Configuration

Internal Configuration "Checks"

Edit checkstyle configuration.

Known modules: Javadoc Comments — MissingJavadoc, MissingJavadoc, SummaryJavadoc, NonEmptyAtcla, JavadocBlockTa, JavadocPackage, JavadocVariable, JavadocMissing, WriteTag, JavadocParagra, JavadocMethod

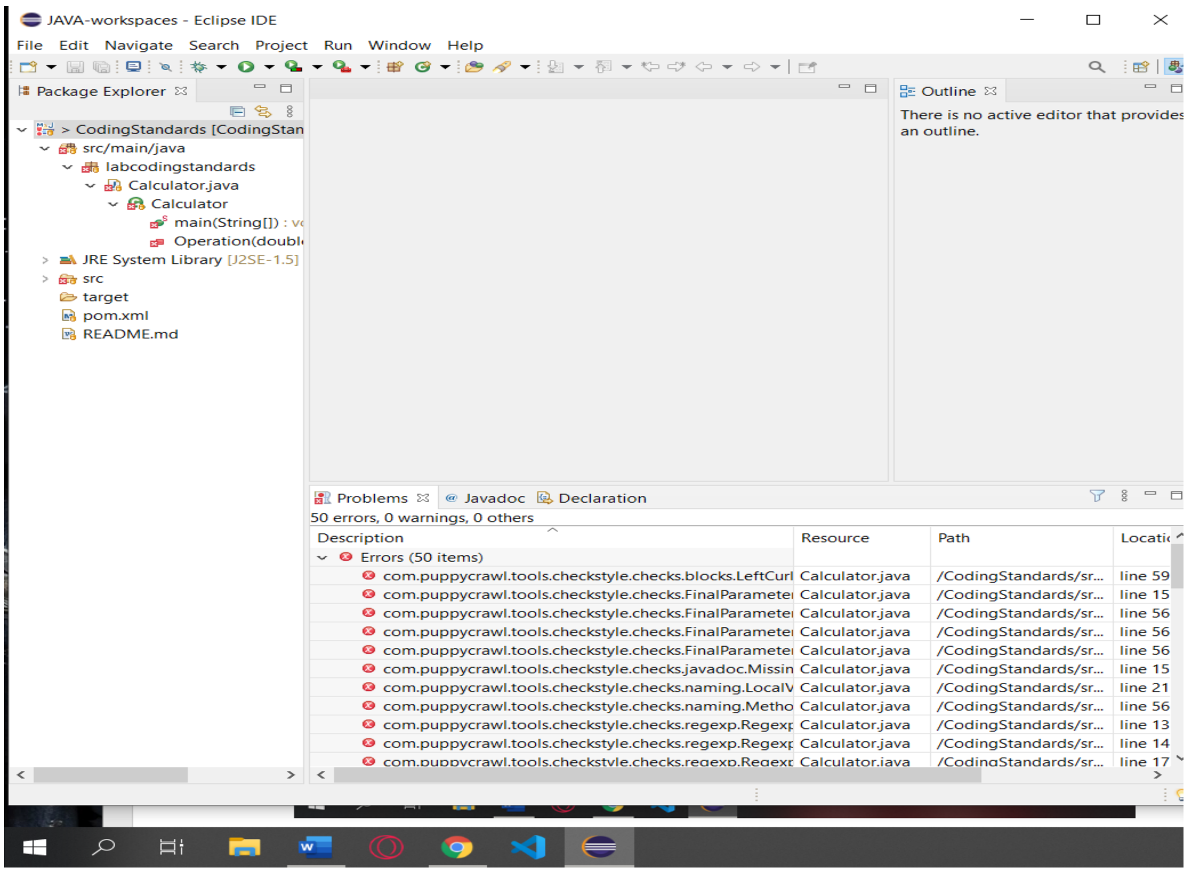
Configured modules for group "Javadoc Comments"

Enabled	Module	Severity	Comment
✓	MissingJavadocM...	inherit	

Description:

```
corrected under Java 6). Hence Checkstyle supports using the convention of using a single
{@code {@inheritDoc}} tag instead of all the other tags.

For getters and setters for the property {@code allowMissingPropertyJavadoc}, the methods
must match exactly the structures below.
```

☑ Open module editor(s) on add action


JAVA-workspaces - Eclipse IDE

Package Explorer

- CodingStandards [CodingStan
  - src/main/java
    - labcodingstandards
      - Calculator.java
        - Calculator
          - main(String[]) : v
          - Operation(doubl
  - JRE System Library [J2SE-1.5]
  - src
  - target
  - pom.xml
  - README.md

Outline

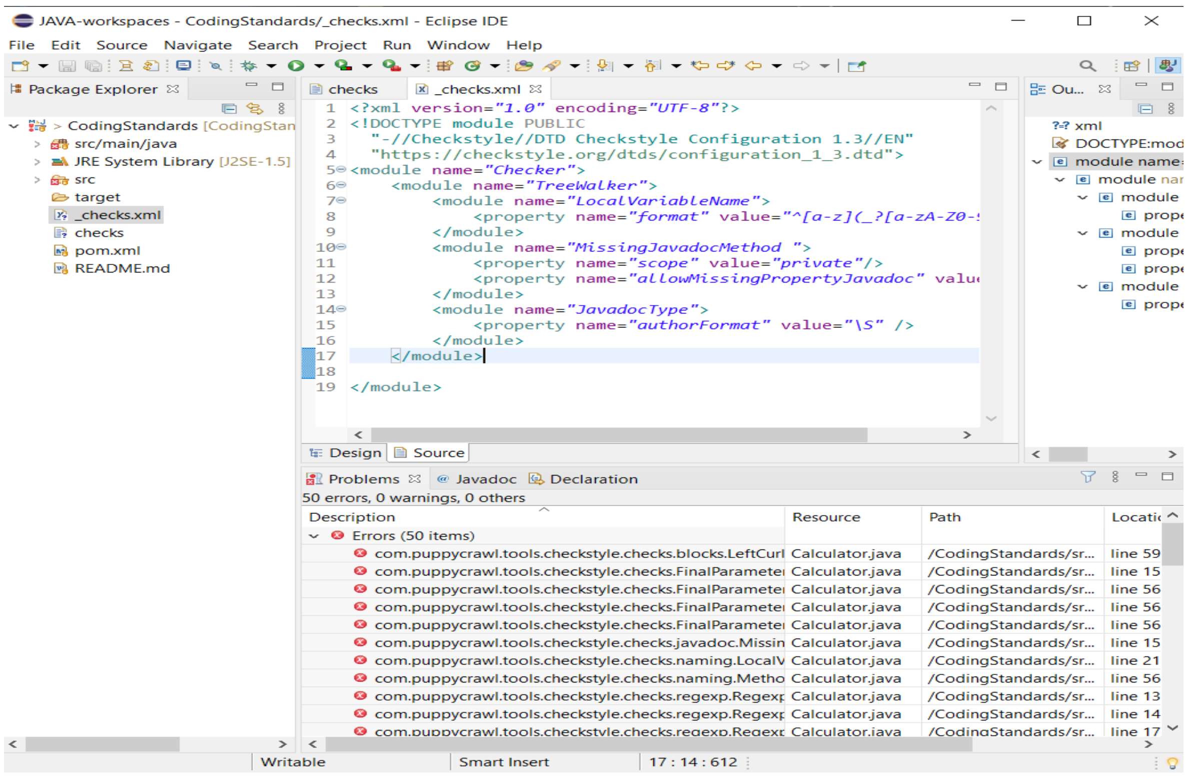
There is no active editor that provides an outline.

Problems | Javadoc | Declaration

50 errors, 0 warnings, 0 others

Description	Resource	Path	Locatio
Errors (50 items)			
com.puppycrawl.tools.checkstyle.checks.blocks.LeftCurl	Calculator.java	/CodingStandards/sr...	line 59
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 15
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.javadoc.Missin	Calculator.java	/CodingStandards/sr...	line 15
com.puppycrawl.tools.checkstyle.checks.naming.LocalV	Calculator.java	/CodingStandards/sr...	line 21
com.puppycrawl.tools.checkstyle.checks.naming.Metho	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.regexp.Regexp	Calculator.java	/CodingStandards/sr...	line 13
com.puppycrawl.tools.checkstyle.checks.regexp.Regexp	Calculator.java	/CodingStandards/sr...	line 14
com.puppycrawl.tools.checkstyle.checks.regexp.Regexp	Calculator.java	/CodingStandards/sr...	line 17

- **Part5: Checkstyle configuration using XML**


JAVA-workspaces - CodingStandards/_checks.xml - Eclipse IDE

Package Explorer

- CodingStandards [CodingStan
  - src/main/java
  - JRE System Library [J2SE-1.5]
  - src
  - target
  - _checks.xml
  - checks
  - pom.xml
  - README.md

checks | _checks.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE module PUBLIC
  "-//Checkstyle//DTD Checkstyle Configuration 1.3//EN"
  "https://checkstyle.org/dtds/configuration_1_3.dtd">
<module name="Checker">
    <module name="TreeWalker">
        <module name="LocalVariableName">
            <property name="format" value="^[a-z](_?[a-zA-Z0-
        </module>
        <module name="MissingJavadocMethod ">
            <property name="scope" value="private"/>
            <property name="allowMissingPropertyJavadoc" valu
        </module>
        <module name="JavadocType">
            <property name="authorFormat" value="\S" />
        </module>
    </module>

</module>
```

Design | Source

Outline

- xml
- DOCTYPE:mod
- module name
  - module nar
    - module
      - prope
    - module
      - prope
      - prope
    - module
      - prope

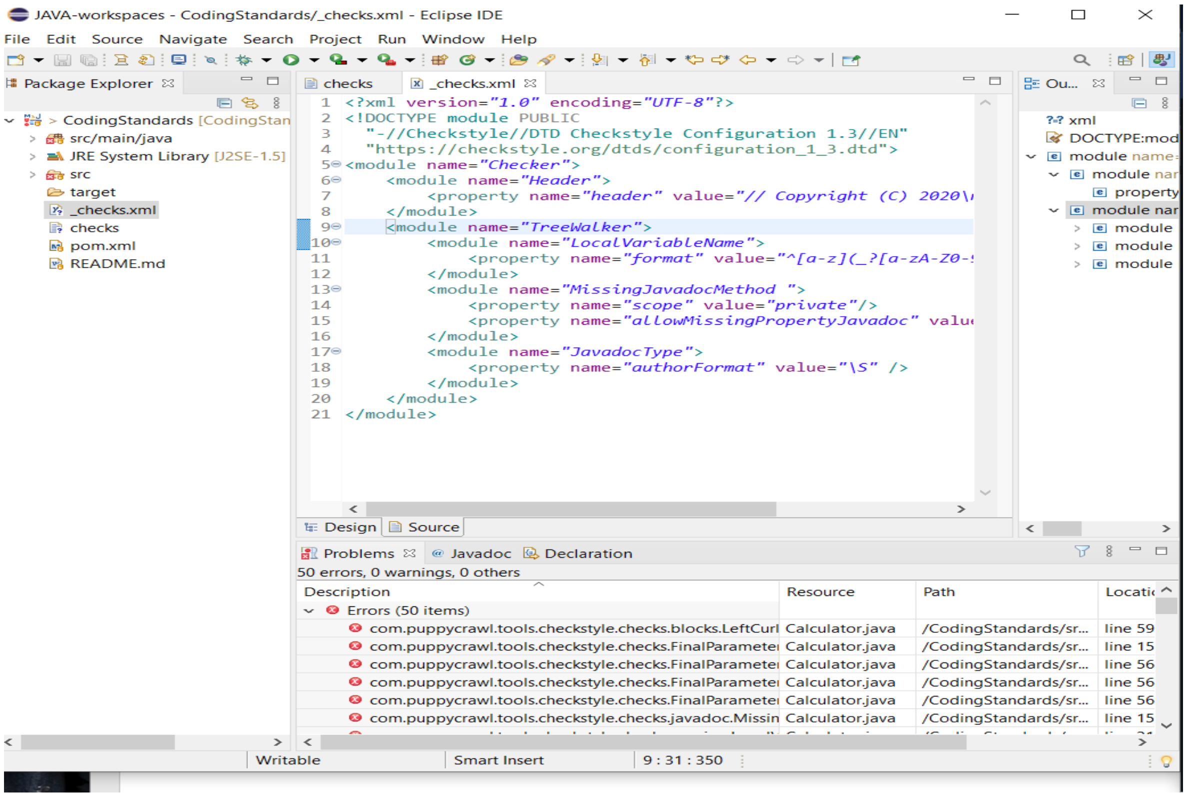
Problems | Javadoc | Declaration

50 errors, 0 warnings, 0 others

Description	Resource	Path	Locatio
Errors (50 items)			
com.puppycrawl.tools.checkstyle.checks.blocks.LeftCurl	Calculator.java	/CodingStandards/sr...	line 59
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 15
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.javadoc.Missin	Calculator.java	/CodingStandards/sr...	line 15
com.puppycrawl.tools.checkstyle.checks.naming.LocalV	Calculator.java	/CodingStandards/sr...	line 21
com.puppycrawl.tools.checkstyle.checks.naming.Metho	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.regexp.Regexp	Calculator.java	/CodingStandards/sr...	line 13
com.puppycrawl.tools.checkstyle.checks.regexp.Regexp	Calculator.java	/CodingStandards/sr...	line 14
com.puppycrawl.tools.checkstyle.checks.regexp.Regexp	Calculator.java	/CodingStandards/sr...	line 17

Writable | Smart Insert | 17 : 14 : 612

- **Part6: Check for headers**


JAVA-workspaces - CodingStandards/_checks.xml - Eclipse IDE

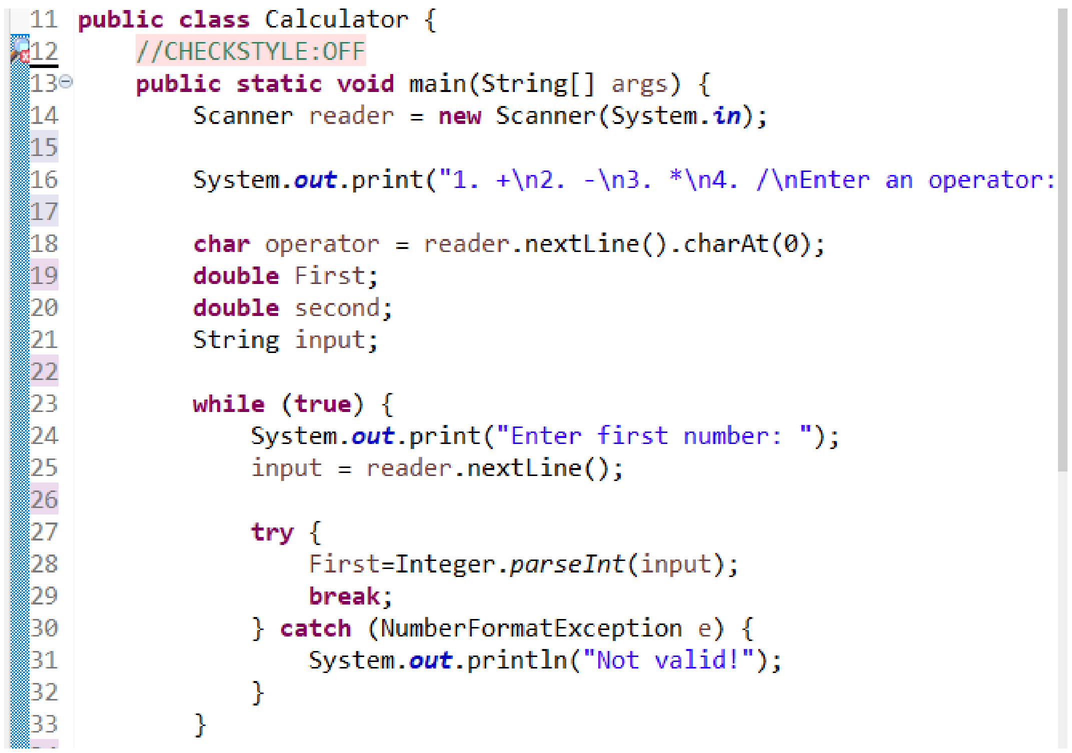
```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE module PUBLIC
  "-//Checkstyle//DTD Checkstyle Configuration 1.3//EN"
  "https://checkstyle.org/dtds/configuration_1_3.dtd">
<module name="Checker">
    <module name="Header">
        <property name="header" value="// Copyright (C) 2020\
    </module>
    <module name="TreeWalker">
        <module name="LocalVariableName">
            <property name="format" value="^[a-z](_?[a-zA-Z0-
        </module>
        <module name="MissingJavadocMethod ">
            <property name="scope" value="private"/>
            <property name="allowMissingPropertyJavadoc" valu
        </module>
        <module name="JavadocType">
            <property name="authorFormat" value="\S" />
        </module>
    </module>
</module>
```

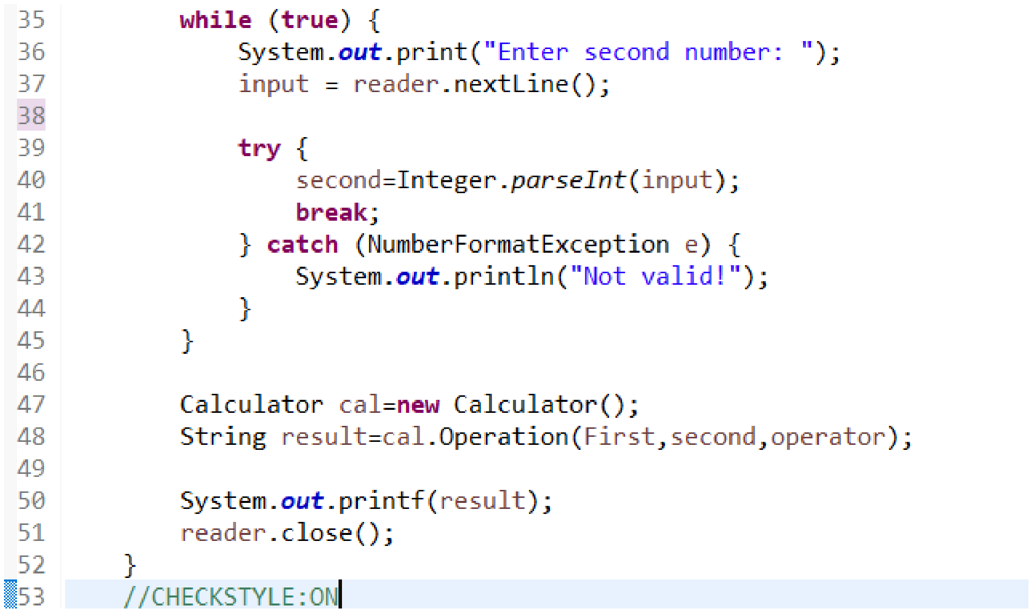
50 errors, 0 warnings, 0 others

Description	Resource	Path	Locati
Errors (50 items)			
com.puppycrawl.tools.checkstyle.checks.blocks.LeftCurl	Calculator.java	/CodingStandards/sr...	line 59
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 15
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.FinalParamete	Calculator.java	/CodingStandards/sr...	line 56
com.puppycrawl.tools.checkstyle.checks.javadoc.Missin	Calculator.java	/CodingStandards/sr...	line 15

Writable   Smart Insert   9 : 31 : 350

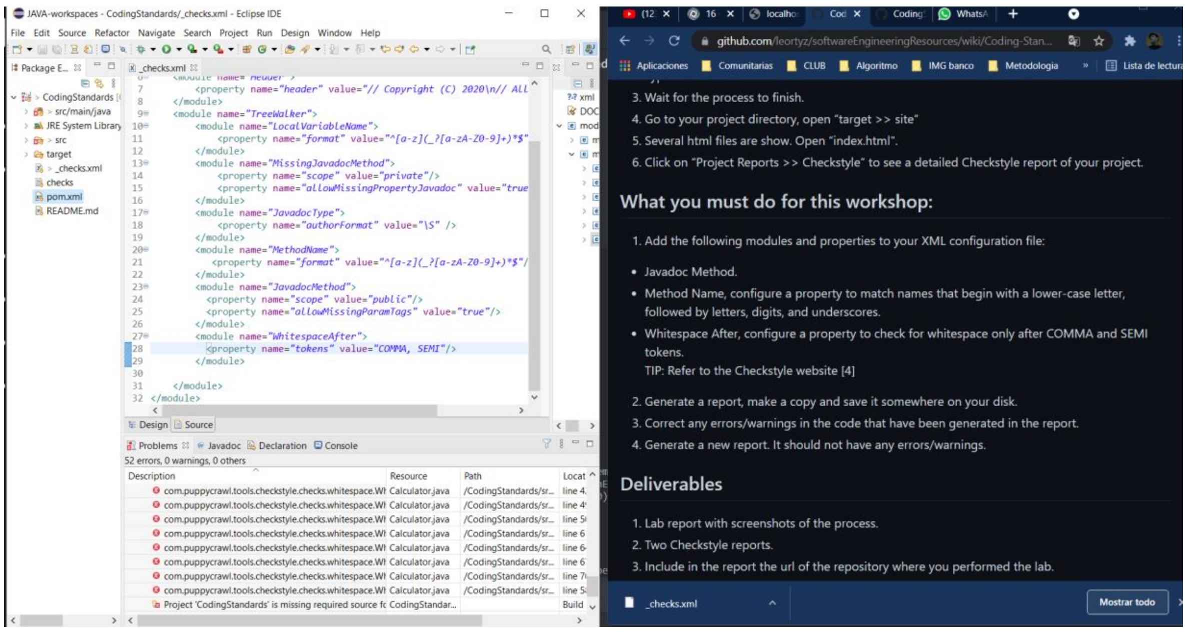
- **Part7: Suppressing Checkstyle Tests**


```
public class Calculator {
    //CHECKSTYLE:OFF
    public static void main(String[] args) {
        Scanner reader = new Scanner(System.in);

        System.out.print("1. +\n2. -\n3. *\n4. /\nEnter an operator:

        char operator = reader.nextLine().charAt(0);
        double First;
        double second;
        String input;

        while (true) {
            System.out.print("Enter first number: ");
            input = reader.nextLine();

            try {
                First=Integer.parseInt(input);
                break;
            } catch (NumberFormatException e) {
                System.out.println("Not valid!");
            }
        }
```



```java
        while (true) {
            System.out.print("Enter second number: ");
            input = reader.nextLine();

            try {
                second=Integer.parseInt(input);
                break;
            } catch (NumberFormatException e) {
                System.out.println("Not valid!");
            }
        }

        Calculator cal=new Calculator();
        String result=cal.Operation(First,second,operator);

        System.out.printf(result);
        reader.close();
    }
    //CHECKSTYLE:ON
```

3. Part8: Checkstyle with Maven



JAVA-workspaces - CodingStandards/_checks.xml - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Design Window Help
Package E...
CodingStandards
src/main/java
JRE System Library
src
target
_checks.xml
checks
pom.xml
README.md
_checks.xml
Design Source
Problems Javadoc Declaration Console

```xml
            <property name="header" value="// Copyright (C) 2020\n// ALL
        </module>
        <module name="TreeWalker">
            <module name="LocalVariableName">
                <property name="format" value="^[a-z](_?[a-zA-Z0-9]+)*$"
            </module>
            <module name="MissingJavadocMethod">
                <property name="scope" value="private"/>
                <property name="allowMissingPropertyJavadoc" value="true
            </module>
            <module name="JavadocType">
                <property name="authorFormat" value="\S" />
            </module>
            <module name="MethodName">
               <property name="format" value="^[a-z](_?[a-zA-Z0-9]+)*$"/
            </module>
            <module name="JavadocMethod">
              <property name="scope" value="public"/>
              <property name="allowMissingParamTags" value="true"/>
            </module>
            <module name="WhitespaceAfter">
              <property name="tokens" value="COMMA, SEMI"/>
            </module>

        </module>
</module>
```

52 errors, 0 warnings, 0 others

Description	Resource	Path	Locat
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 4
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 4
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 5
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 6
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 6
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 6
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 7
com.puppycrawl.tools.checkstyle.checks.whitespace.Wl	Calculator.java	/CodingStandards/sr...	line 5
Project 'CodingStandards' is missing required source fc	CodingStandar...		Build

3. Wait for the process to finish.
4. Go to your project directory, open "target >> site"
5. Several html files are show. Open "index.html".
6. Click on "Project Reports >> Checkstyle" to see a detailed Checkstyle report of your project.

What you must do for this workshop:

1. Add the following modules and properties to your XML configuration file:

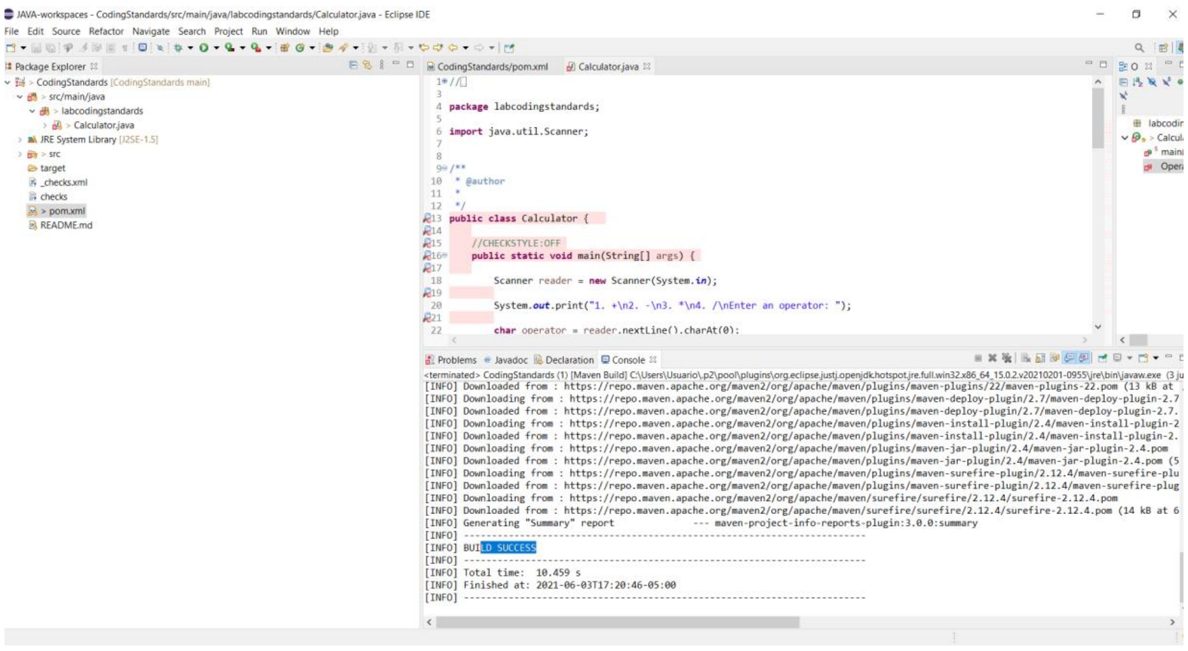
- Javadoc Method.
- Method Name, configure a property to match names that begin with a lower-case letter, followed by letters, digits, and underscores.
- Whitespace After, configure a property to check for whitespace only after COMMA and SEMI tokens.
  TIP: Refer to the Checkstyle website [4]

2. Generate a report, make a copy and save it somewhere on your disk.
3. Correct any errors/warnings in the code that have been generated in the report.
4. Generate a new report. It should not have any errors/warnings.

Deliverables

1. Lab report with screenshots of the process.
2. Two Checkstyle reports.
3. Include in the report the url of the repository where you performed the lab.

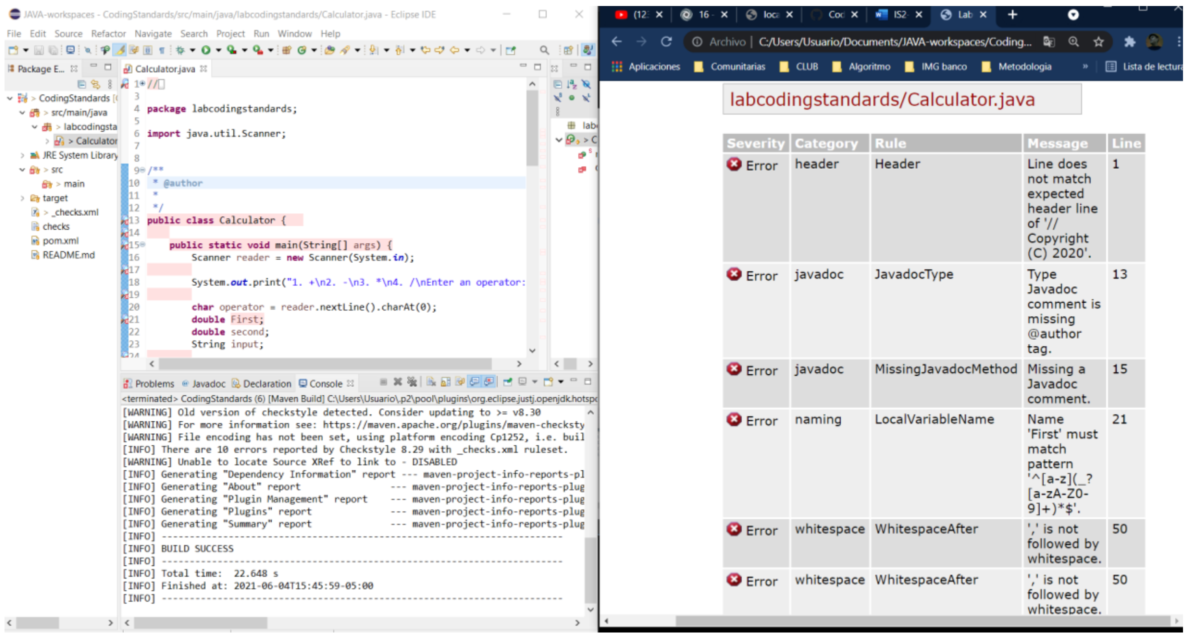
Run as >> Maven Build…



```
//

package labcodingstandards;

import java.util.Scanner;


/**
 * @author
 *
 */
public class Calculator {

    //CHECKSTYLE:OFF
    public static void main(String[] args) {

        Scanner reader = new Scanner(System.in);

        System.out.print("1. +\n2. -\n3. *\n4. /\nEnter an operator: ");

        char operator = reader.nextLine().charAt(0);
```

```
<terminated> CodingStandards (1) [Maven Build] C:\Users\Usuario\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.2.v20210201-0955\jre\bin\javaw.exe (3 ju
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/22/maven-plugins-22.pom (13 kB at
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.4/maven-jar-plugin-2.4.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.4/maven-jar-plugin-2.4.pom (5
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plu
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.12.4/maven-surefire-plug
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.12.4/surefire-2.12.4.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire/2.12.4/surefire-2.12.4.pom (14 kB at 6
[INFO] Generating "Summary" report           --- maven-project-info-reports-plugin:3.0.0:summary
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  10.459 s
[INFO] Finished at: 2021-06-03T17:20:46-05:00
[INFO] ------------------------------------------------------------------------
```

Generated Report with 10 errors



```
//

package labcodingstandards;

import java.util.Scanner;


/**
 * @author
 *
 */
public class Calculator {

    public static void main(String[] args) {
        Scanner reader = new Scanner(System.in);

        System.out.print("1. +\n2. -\n3. *\n4. /\nEnter an operator:

        char operator = reader.nextLine().charAt(0);
        double First;
        double second;
        String input;
```

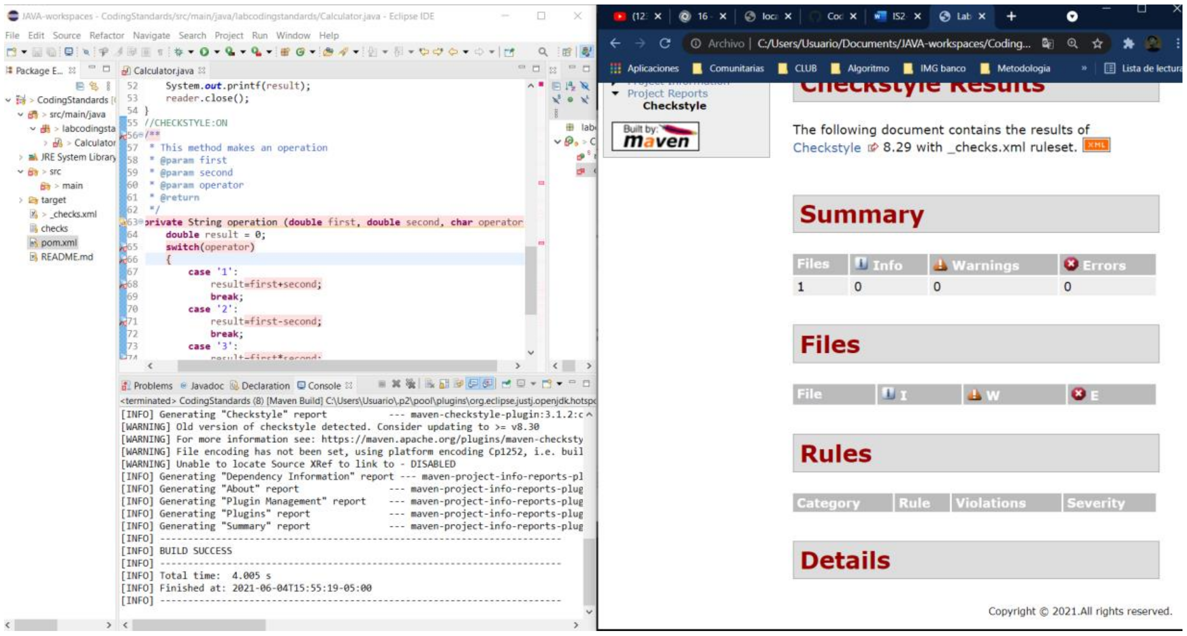
```
<terminated> CodingStandards (6) [Maven Build] C:\Users\Usuario\.p2\pool\plugins\org.eclipse.justj.openjdk.hotsp
[WARNING] Old version of checkstyle detected. Consider updating to >= v8.30
[WARNING] For more information see: https://maven.apache.org/plugins/maven-checksty
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. buil
[INFO] There are 10 errors reported by Checkstyle 8.29 with _checks.xml ruleset.
[WARNING] Unable to locate Source XRef to link to - DISABLED
[INFO] Generating "Dependency Information" report --- maven-project-info-reports-pl
[INFO] Generating "About" report                  --- maven-project-info-reports-plug
[INFO] Generating "Plugin Management" report      --- maven-project-info-reports-plug
[INFO] Generating "Plugins" report                --- maven-project-info-reports-plug
[INFO] Generating "Summary" report                --- maven-project-info-reports-plug
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  22.648 s
[INFO] Finished at: 2021-06-04T15:45:59-05:00
[INFO] ------------------------------------------------------------------------
```

C:/Users/Usuario/Documents/JAVA-workspaces/Coding...

labcodingstandards/Calculator.java

Severity	Category	Rule	Message	Line
Error	header	Header	Line does not match expected header line of '// Copyright (C) 2020'.	1
Error	javadoc	JavadocType	Type Javadoc comment is missing @author tag.	13
Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	15
Error	naming	LocalVariableName	Name 'First' must match pattern '^[a-z](_?[a-zA-Z0-9]+)*$'.	21
Error	whitespace	WhitespaceAfter	',' is not followed by whitespace.	50
Error	whitespace	WhitespaceAfter	',' is not followed by whitespace.	50

Run with solved problems and report



```
    System.out.printf(result);
    reader.close();
}
//CHECKSTYLE:ON
/**
 * This method makes an operation
 * @param first
 * @param second
 * @param operator
 * @return
 */
private String operation (double first, double second, char operator
    double result = 0;
    switch(operator)
    {
        case '1':
            result=first+second;
            break;
        case '2':
            result=first-second;
            break;
        case '3':
```

```
<terminated> CodingStandards (8) [Maven Build] C:\Users\Usuario\.p2\pool\plugins\org.eclipse.justj.openjdk.hotsp
[INFO] Generating "Checkstyle" report          --- maven-checkstyle-plugin:3.1.2:c
[WARNING] Old version of checkstyle detected. Consider updating to >= v8.30
[WARNING] For more information see: https://maven.apache.org/plugins/maven-checksty
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. buil
[WARNING] Unable to locate Source XRef to link to - DISABLED
[INFO] Generating "Dependency Information" report --- maven-project-info-reports-pl
[INFO] Generating "About" report               --- maven-project-info-reports-plug
[INFO] Generating "Plugin Management" report   --- maven-project-info-reports-plug
[INFO] Generating "Plugins" report             --- maven-project-info-reports-plug
[INFO] Generating "Summary" report             --- maven-project-info-reports-plug
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  4.005 s
[INFO] Finished at: 2021-06-04T15:55:19-05:00
[INFO] ------------------------------------------------------------------------
```

The following document contains the results of Checkstyle 8.29 with _checks.xml ruleset.

Summary

Files	Info	Warnings	Errors
1	0	0	0

Files

File	I	W	E

Rules

Category	Rule	Violations	Severity

Details

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