

**ESCUELA SUPERIOR POLITÉCNICA DEL LITORAL**  
**FACULTY OF ELECTRICAL AND COMPUTER ENGINEERING**  
**SOFTWARE ENGINEERING II**  
**CODING STANDARDS - 2023**

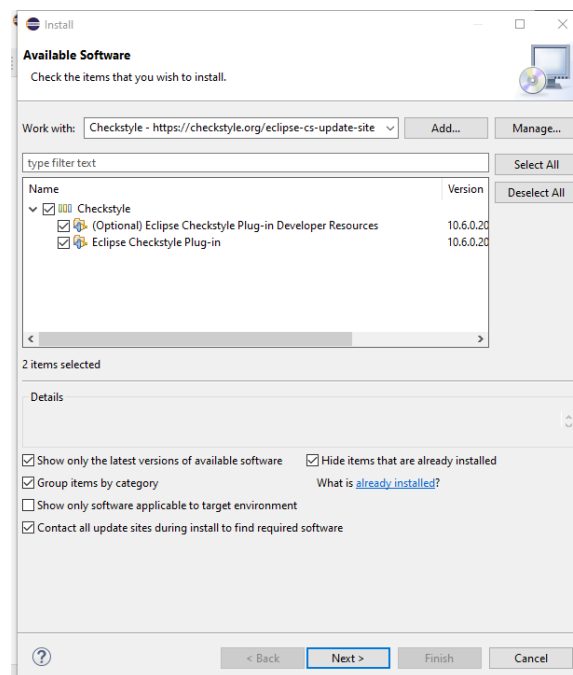
**Name:** María Alexandra Ramos Plúas

**Reporte1 taller#1**

**Part 1: Install Maven for Eclipse.**

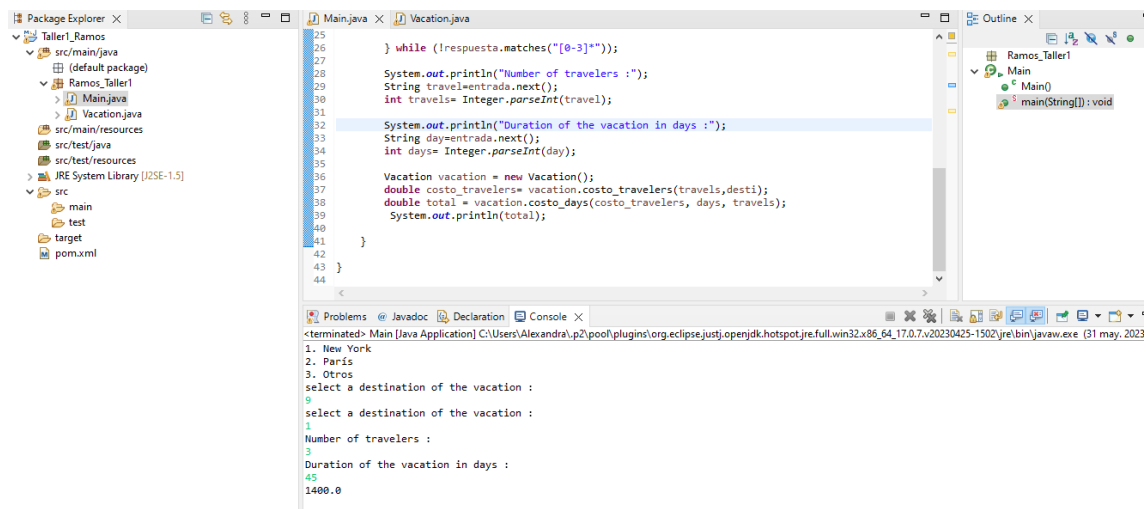
Maven is already installed in the new versions

**Part 2: Install the Eclipse Checkstyle plug-in**



**Part 3: Create and configure the Project**

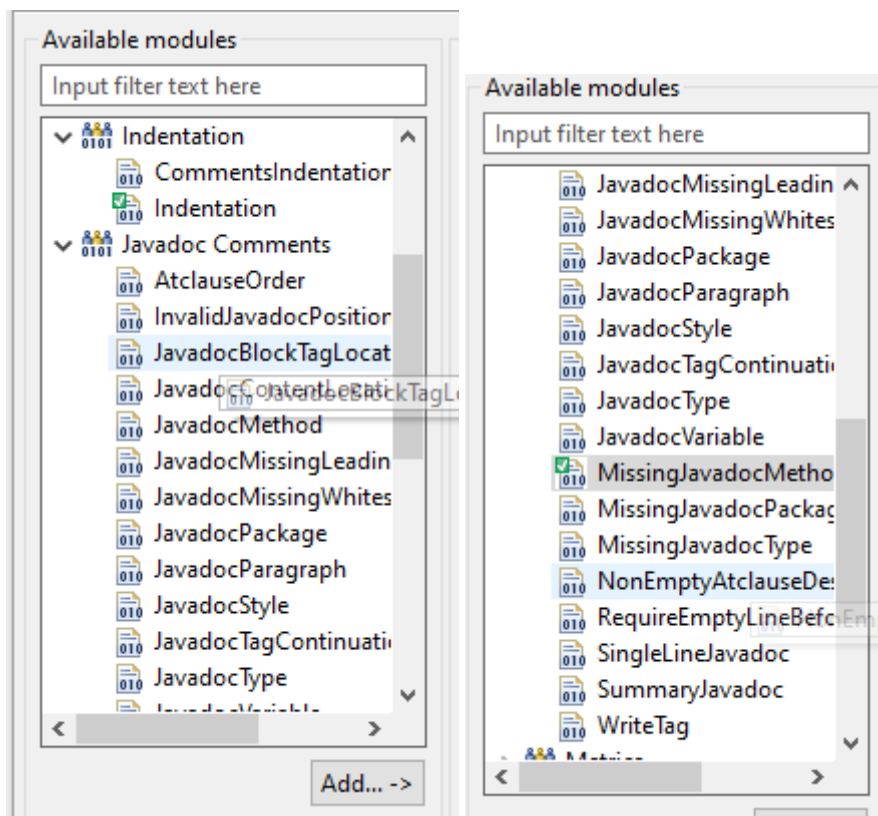
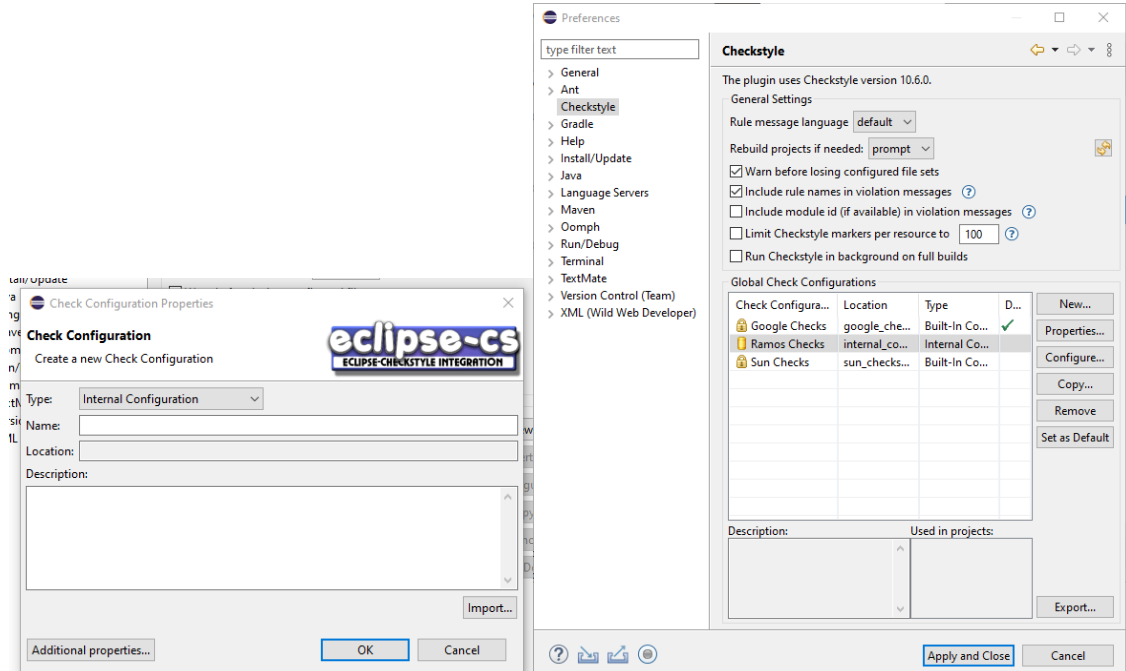
Project created and Checkstyle enabled



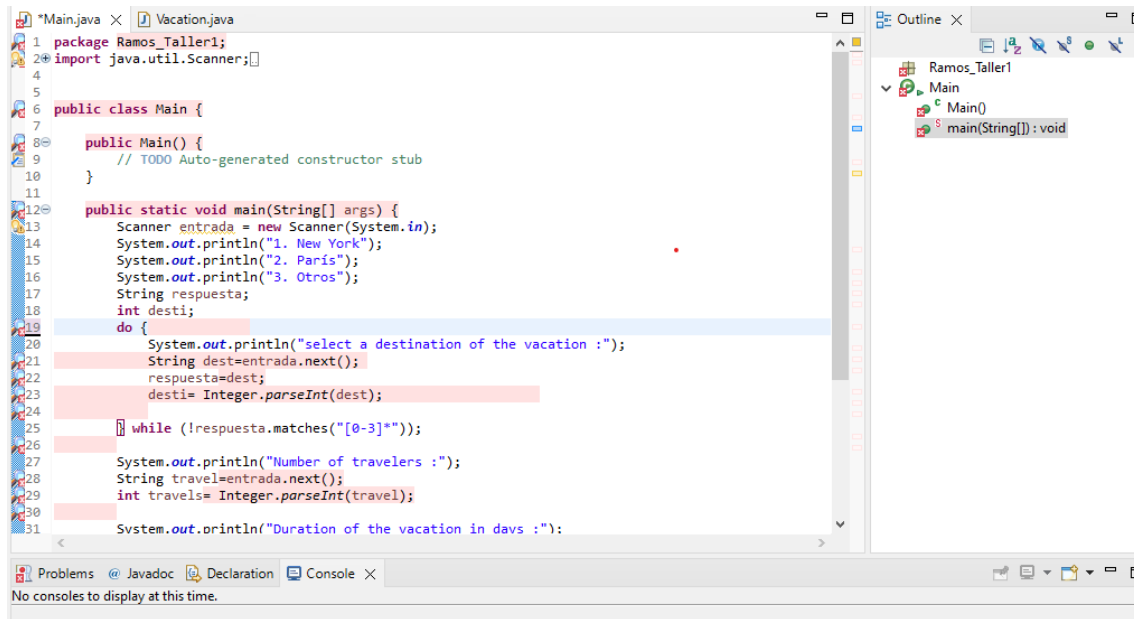
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**Part 4: Configure Checkstyle**

Once the Checkstyle configuration is finished, the lines of code with any error are highlighted in pink color and if we place the cursor over them, it tells us the error.



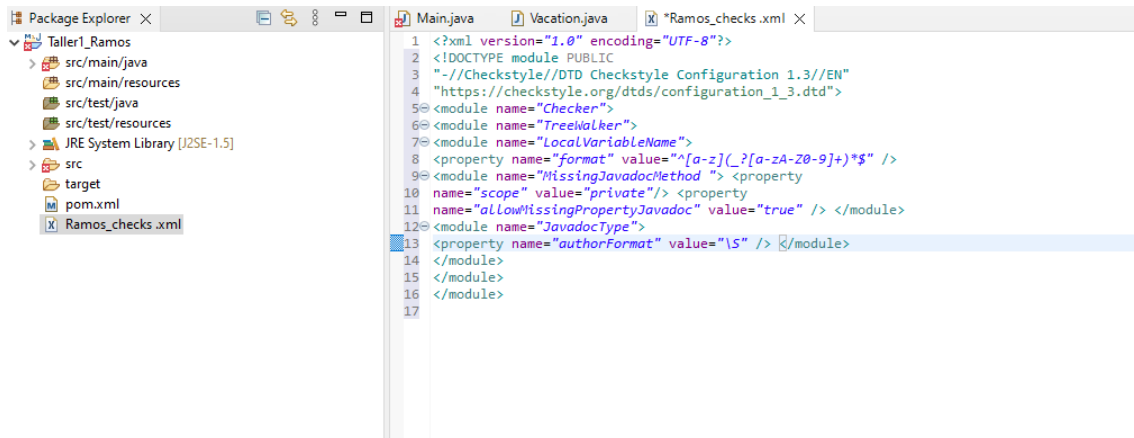
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```
1 package Ramos_Taller1;
2 import java.util.Scanner;
3
4
5
6 public class Main {
7
8     public Main() {
9         // TODO Auto-generated constructor stub
10    }
11
12    public static void main(String[] args) {
13        Scanner entrada = new Scanner(System.in);
14        System.out.println("1. New York");
15        System.out.println("2. Paris");
16        System.out.println("3. Otros");
17        String respuesta;
18        int desti;
19        do {
20            System.out.println("select a destination of the vacation :");
21            String dest=entrada.next();
22            respuesta=dest;
23            desti= Integer.parseInt(dest);
24
25            while (!respuesta.matches("[0-3]*"));
26
27            System.out.println("Number of travelers :");
28            String travel=entrada.next();
29            int travels= Integer.parseInt(travel);
30
31            System.out.println("Duration of the vacation in days :");
```

## Part 5: Configure Checkstyle using the XML

The Configure Checkstyle was made using the XML and an XML reader and tools had to be installed.

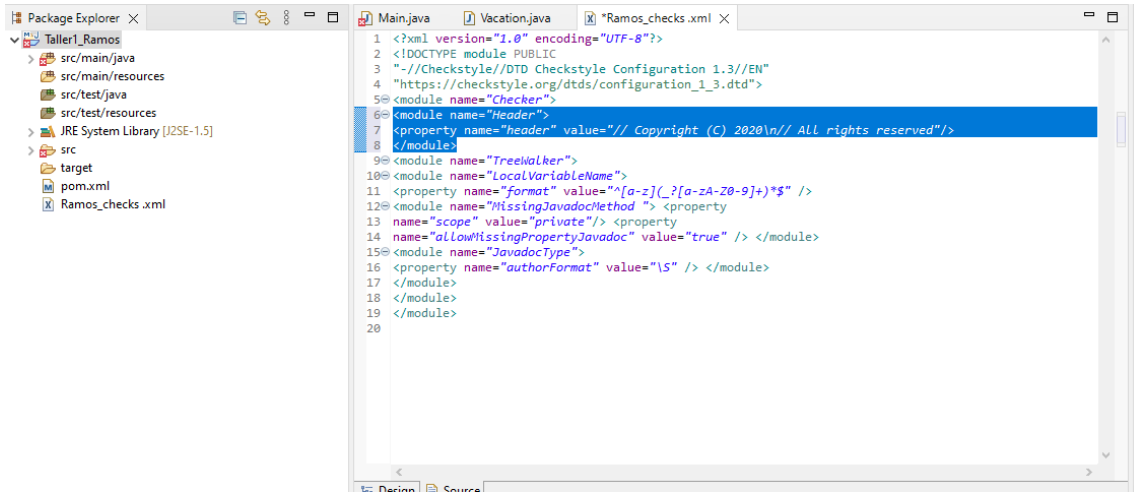


```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE module PUBLIC
3     "-//Checkstyle//DTD Checkstyle Configuration 1.3//EN"
4     "https://checkstyle.org/dtds/configuration_1_3.dtd">
5
6 <module name="Checker">
7     <module name="TreeWalker">
8         <module name="LocalVariableName">
9             <property name="format" value="^[a-z](_?[a-zA-Z0-9-9])*$" />
10        <module name="MissingJavadocMethod"> <property
11            name="scope" value="private"/> <property
12            name="allowMissingPropertyJavadoc" value="true" /> </module>
13        <module name="JavadocType">
14            <property name="authorFormat" value="\S" /> </module>
15        </module>
16    </module>
17 </module>
```

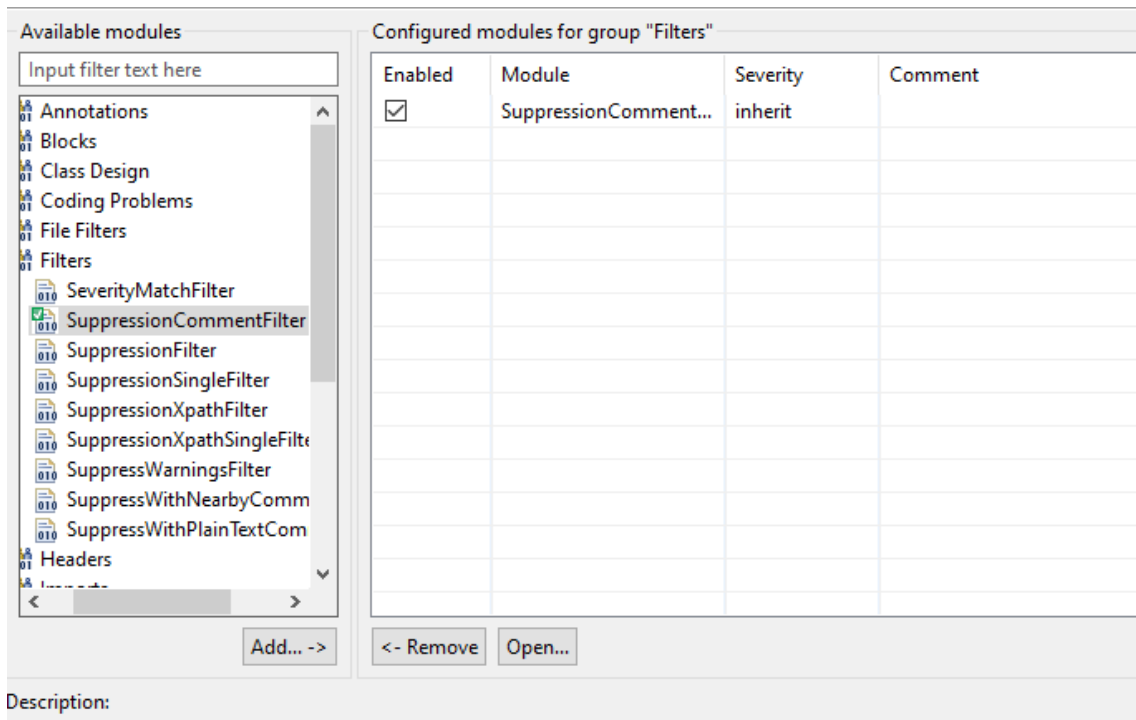
## Part 6: Check for headers.

Let's add a rule to verify a fixed header

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## Part 7: Suppressing Checkstyle Tests



## Part 8: Checkstyle with Maven

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```
Overview | Dependencies | Dependency Hierarchy | Effective POM | pom.xml
Problems | @ Javadoc | Declaration | Console
<terminated> Taller1_Ramos (3) [Maven Build] C:\Users\Alexandra.p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (1 jun. 2023 2
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.p
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.p
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-release/2.5.3/maven-release-2.5.3.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-release/2.5.3/maven-release-2.5.3.pom (5.0 kB at 3
[INFO] Generating "Plugins" report --- maven-project-info-reports-plugin:3.0.0:plugins
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.pom (3.9 k
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom (5.6
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.pom (6
[INFO] Generating "Summary" report --- maven-project-info-reports-plugin:3.0.0:summary
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 12.041 s
[INFO] Finished at: 2023-06-01T21:05:09-05:00
[INFO] -----
```

## Taller1\_Ramos

Last Published: 2023-06-01 | Version: 0.0.1-SNAPSHOT

Project Documentation  
Project Information  
Project Reports  
Checkstyle

### Checkstyle Results

The following document contains the results of Checkstyle 9.3 with Ramos\_checks.xml ruleset.

#### Summary

Files	src="images/icon_info_sml.gif" Info	src="images/icon_warning_sml.gif" Warnings	src="images/icon_error_sml.gif" Errors
2	0	0	9

#### Files

File	src="images/icon_info_sml.gif" I	src="images/icon_warning_sml.gif" W	src="images/icon_error_sml.gif" E
Ramos_Taller1/Main.java	0	0	3
Ramos_Taller1/Vacation.java	0	0	6

#### Rules

Category	Rule	Violations	Severity
header	Header ① <ul style="list-style-type: none"><li>header</li><li>1: // Copyright (C) 2020</li><li>2: // All rights reserved</li></ul>	2	src="images/icon_error_sml.gif" Error
javadoc	MissingJavadocMethod ① <ul style="list-style-type: none"><li>allowMissingPropertyJavadoc: "true"</li><li>scope: "private"</li></ul>	7	src="images/icon_error_sml.gif" Error

#### Details

### Ramos\_Taller1/Main.java

Severity	Category	Rule	Message	Line
src="images/icon_error_sml.gif" Error	header	Header	Line does not match expected header line of '// Copyright (C) 2020'.	1
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	8
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	12

### Ramos\_Taller1/Vacation.java

Severity	Category	Rule	Message	Line
src="images/icon_error_sml.gif" Error	header	Header	Line does not match expected header line of '// Copyright (C) 2020'.	1
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	7
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	10
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	29
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	41
src="images/icon_error_sml.gif" Error	javadoc	MissingJavadocMethod	Missing a Javadoc comment.	56

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## Repository:

[https://github.com/maraplua/Coding\\_Standards\\_SWII](https://github.com/maraplua/Coding_Standards_SWII)