Original code where errors can be seen.

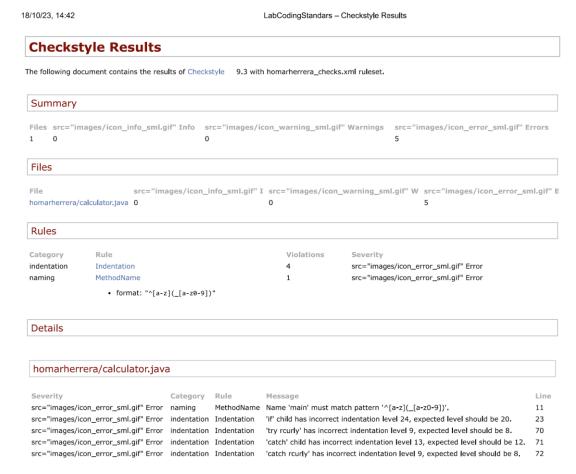
To carry out the activity, it was decided to create a linear code structure, which is attached in the following images.

```
🔝 calculator.java 🗴
2 package homarherrera;
  3 import java.util.InputMismatchException;
  4 import java.util.Scanner;
6 public class calculator {
7
80 public static void ma:
         public static void main(final String[] args) {
                 System.out.println("Empezamos el programa");
  11
                  Scanner input = new Scanner(System.in);
 12
                  String destination = "";
  13
                  int travelers = 0;
                  int days = 0;
                  while (true) {
                     System.out.print("Escogamos un destino: ");
                      destination = input.nextLine();
  18
                      if (destination.length() > 2) {
  19
                              break;
 20
 21
22
23
24
25
26
27
28
29
                      System.out.print("Ingrese un destino correcto: ");
                  while (true) {
                      System.out.print("Ingrese el numero de viajeros: ");
                           travelers = input.nextInt();
                          final int minTravelers = 0;
                           final int maxTravelers = 80;
                          if (travelers > minTravelers && travelers <= maxTravelers) {</pre>
  30
  31
                          System.err.println("Capacidad debe estar entre 1 y 80.");
  32
  33
                      } catch (InputMismatchException ime) {
                           input.nextLine();
  35
                           System.err.print("Solo puede ingresar valores numericos. ");
  36
  38
                  while (true) {
  39
                      System.out.print("Ingrese el numero de dias: ");
  40
                      try {
 41
42
43
44
45
46
                          days = input.nextInt();
                          break:
                      } catch (InputMismatchException ime) {
                          input.nextLine();
                           System.err.println("Solo ingresar valores numericos.");
  48
                  double total = 1000;
 49
                  if (destination.compareToIgnoreCase("Paris") == 0) {
                      total += 500;
                  } else if (destination.compareToIgnoreCase("New York") == 0) {
                      total += 600;
                 if (travelers > 4 && travelers < 10) {
                     total = total * 0.9;
                 } else if (travelers > 10) {
                     total = total * 0.8;
                 if (days < 7) {
                     total += 200;
                 if (days > 30 || travelers == 2) {
 64
65
66
67
68
                 System.out.println("Valor total: ".concat(String.valueOf(total)));
              } catch (Exception e)
                  System.err.println("-1");
         }
```

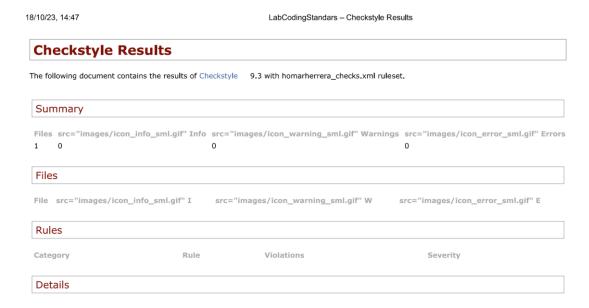
With the installation of the Checkstyle plugin, the following rules were configured:

- Indentation.
- · Java methods.
- Whitespace After.
- Missing javadoc method.
- Avoid static imports.

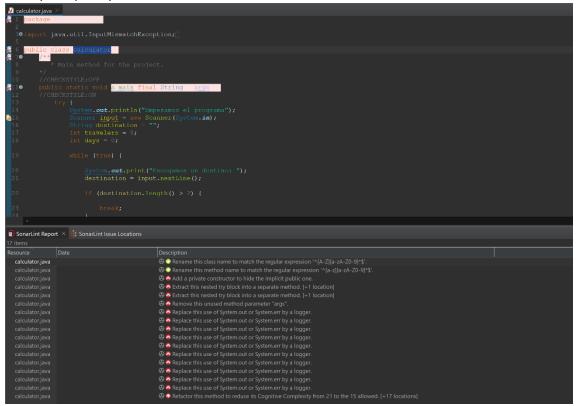
With the rules defined, the check was carried out using Maven, obtaining the following errors



After reviewing the errors and doing some research into their solution, they were eliminated, resulting in the result when running Maven.



For the competition, the SonarLint tool was used because the program was written in Java and mainly complexity, variable declaration and recurrence errors were obtained.



After correcting the errors and investigating how to eliminate the complexity, we proceeded to eliminate the rule of replacing with a logger, obtaining the following report from SonarLint.

