


# Tarea: Integración de SonarCloud con GitHub para el

## Análisis Estático de Código

Organizations enable your team to collaborate across many projects.

### 1 Import organization details

Import  AGM54 into a SonarQube Cloud organization 

Name \*

AGM54

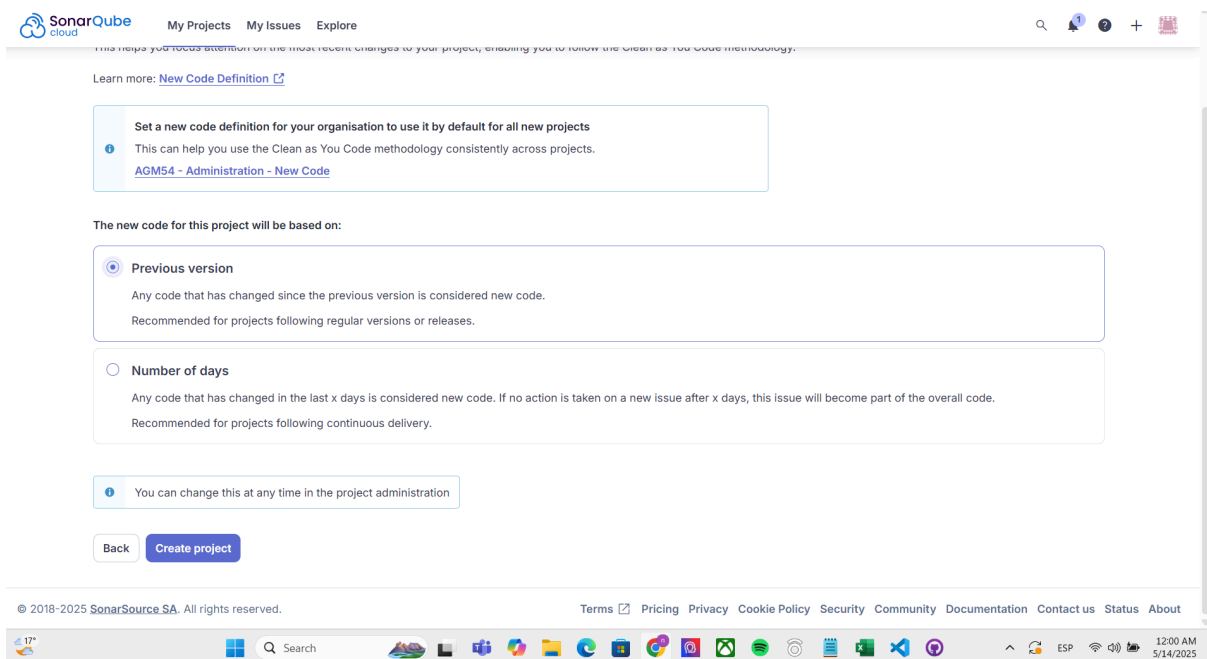
Up to 255 characters

Key \* ?

agm54

Organization key must start with a lowercase letter or number, followed by lowercase letters, numbers or hyphens, and must end with a letter or number. Maximum length: 255 characters.

[> Add additional info](#)



The screenshot shows the SonarQube Cloud interface for configuring 'New Code' for the organization AGM54. The page has a top navigation bar with 'My Projects', 'My Issues', and 'Explore'. A search bar and user profile icon are on the right. Below the navigation bar, there's a message about 'New Code Definition' and a link to 'Learn more: New Code Definition'. The main content area is titled 'Set a new code definition for your organisation to use it by default for all new projects'. It explains that this helps with the 'Clean as You Code' methodology. There are two radio button options: 'Previous version' (selected) and 'Number of days'. The 'Previous version' option states that any code changed since the previous version is considered new code, recommended for regular versions or releases. The 'Number of days' option states that any code changed in the last x days is considered new code, recommended for continuous delivery. A note at the bottom says 'You can change this at any time in the project administration'. At the bottom of the page, there are links for 'Back' and 'Create project'. The footer contains copyright information (© 2018-2025 SonarSource SA) and various links (Terms, Pricing, Privacy, Cookie Policy, Security, Community, Documentation, Contact us, Status, About). The Windows taskbar is visible at the very bottom.

SonarQube cloud My Projects My Issues Explore

Learn more: [New Code Definition](#)

Set a new code definition for your organisation to use it by default for all new projects

This can help you use the Clean as You Code methodology consistently across projects.

[AGM54 - Administration - New Code](#)

The new code for this project will be based on:

☒ Previous version

Any code that has changed since the previous version is considered new code.

Recommended for projects following regular versions or releases.

☐ Number of days

Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue will become part of the overall code.


Recommended for projects following continuous delivery.

You can change this at any time in the project administration

[Back](#) [Create project](#)

© 2018-2025 SonarSource SA. All rights reserved. Terms Pricing Privacy Cookie Policy Security Community Documentation Contact us Status About



 SonarQube  
cloud


My Projects

My Issues

Explore

1

+



sonarcloud-analysis

Public

Overview

Main Branch

Pull Requests0

Branches1

Information

Administration

Collapse

AGM54 > sonarcloud-analysis > Administration / Update Key

## Update Key

Edit the key of a project.

1

Key changes must be made here BEFORE analyzing the project with the new keys, otherwise the analysis will simply create another project with the new key, rather than updating the existing project.

Project Key ?

AGM54\_sonarcloud-analysisj

Up to 400 characters. All letters, digits, dash, underscore, period or colon.

UpdateReset

© 2018-2025 SonarSource SA. All rights reserved.

Terms

Pricing

Privacy

Cookie Policy

Security

Community


Documentation

Contact us

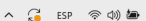
Status

About

17°



Search



12:12 AM  
5/14/2025

# Configuración

The screenshot shows the GitHub repository settings page for 'sonarcloud-analysis'. The left sidebar contains navigation links: General, Access, Collaborators, Moderation options, Code and automation, Branches, Tags, Rules, Actions, Webhooks, Environments, Codespaces, Pages, Security, Advanced Security, Deploy keys, and Secrets and variables. The main content area is titled 'Actions secrets and variables'. It includes a 'Secrets' tab, 'Environment secrets' (with a 'Manage environment secrets' button), and 'Repository secrets' (with a 'New repository secret' button). A table lists repository secrets, showing 'SONAR\_TOKEN' with a 'now' last updated time. A blue banner at the top states 'Repository secret added.'

## Workflow

```
C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>mkdir -p .github/workflows
The syntax of the command is incorrect.

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>mkdir .github

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>mkdir .github\workflows

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>code .github\workflows\sonarcloud.yml

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>git add .github\workflows\sonarcloud.yml

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>git commit -m "Fix projectKey to match SonarCloud settings"

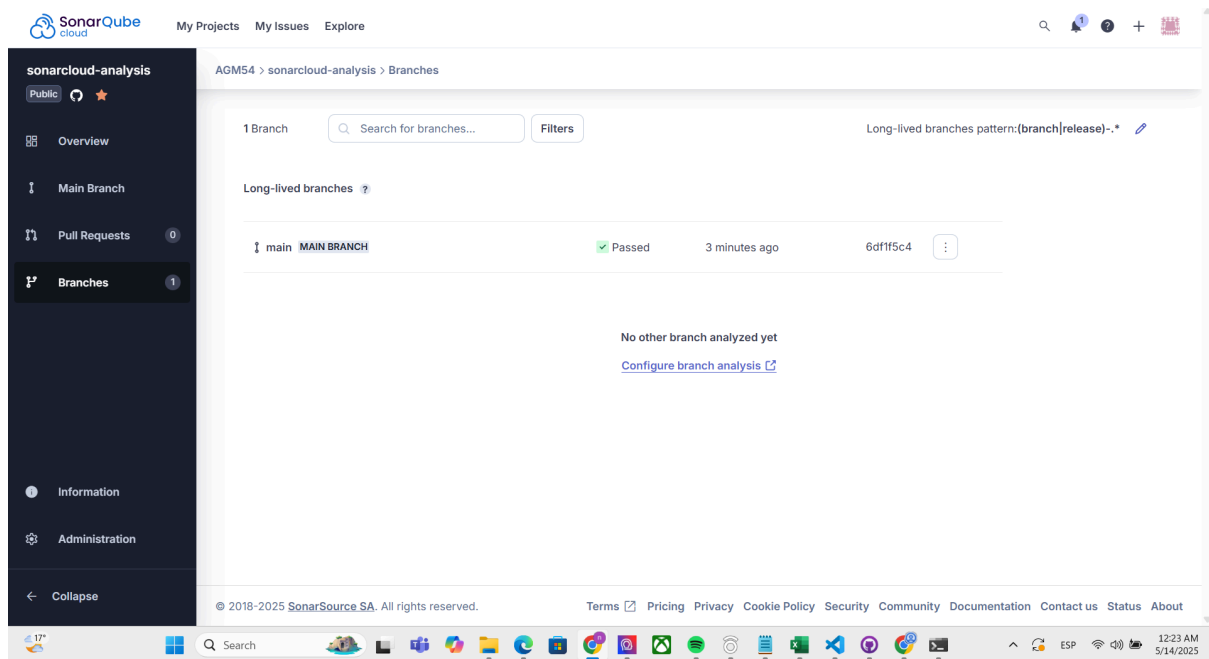
[main 6df1f5c] Fix projectKey to match SonarCloud settings
1 file changed, 35 insertions(+)
create mode 100644 .github/workflows/sonarcloud.yml

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 32 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 825 bytes | 165.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/AGM54/sonarcloud-analysis.git
0648bb3..6df1f5c main -> main

C:\Users\marce\OneDrive\Documents\GitHub\sonarcloud-analysis>
```

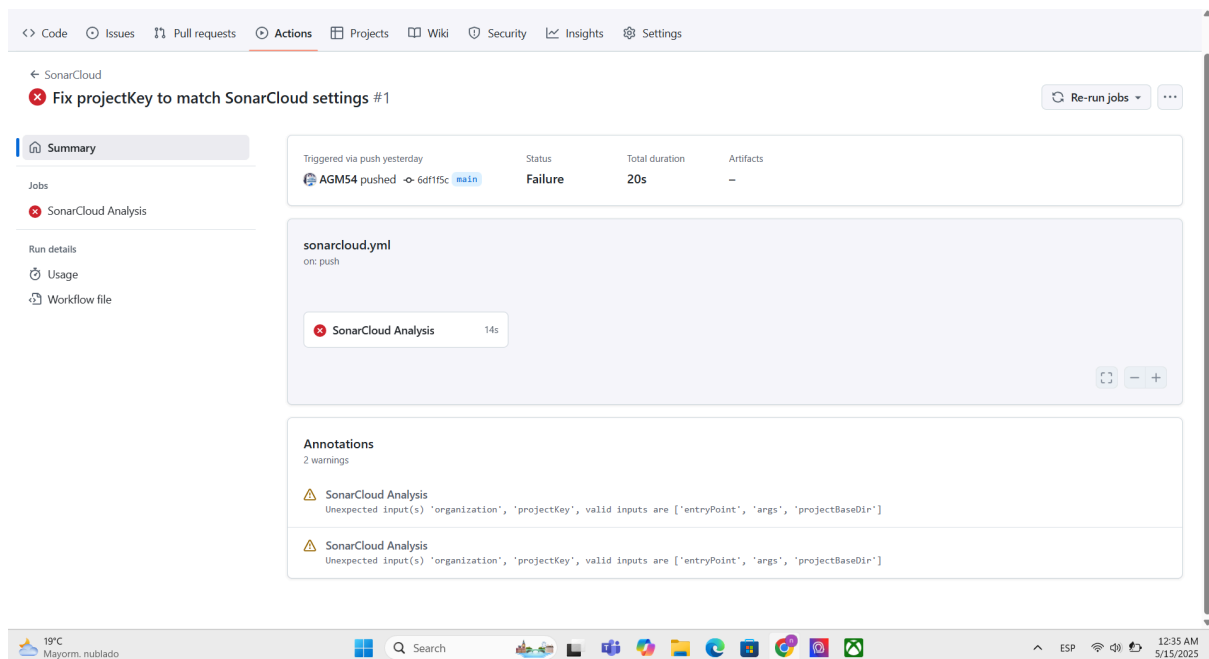
## Análisis

The screenshot displays the SonarCloud web interface. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area is titled 'Commits' and shows a list of commits for the 'main' branch. The first commit is 'Fix projectKey to match SonarCloud settings' by AGM54, committed 2 minutes ago. The second commit is 'Add sample Python script' by Overlord-slayer, committed 3 days ago. The third commit is 'Initial commit' by AGM54, authorized 3 days ago. Below the commits, the 'sonarcloud-analysis' project overview is shown, including the 'Main Branch Status' (Quality Gate Passed) and 'Main Branch Evolution' (0 Issues).



## Problemas

1.



**Durante los primeros intentos de ejecutar el análisis con SonarCloud a través de GitHub Actions, el workflow falló con el siguiente mensaje:**

```
Warning: Unexpected input(s) 'organization', 'projectKey', valid inputs are ['entryPoint', 'args', 'projectBaseDir']
```

Este error se presentó porque se utilizaron incorrectamente los campos organization y projectKey en la sección with: del archivo sonarcloud.yml. Aunque estos campos son requeridos por SonarCloud, la acción oficial SonarSource/sonarcloud-github-action@v2 no los reconoce como inputs válidos.

```

INFO: -----
INFO: EXECUTION FAILURE
INFO: -----
INFO: Total time: 4.781s
ERROR: Error during SonarScanner execution
ERROR: You must define the following mandatory properties for 'Unknown': sonar.projectKey, sonar.organization
ERROR:
ERROR: Re-run SonarScanner using the -X switch to enable full debug logging.
INFO: Final Memory: 11M/54M
INFO: -----

```

El error ocurrió por una mala interpretación de la documentación. Se esperaba que los parámetros `sonar.organization` y `sonar.projectKey` fueran aceptados directamente como entradas (with:), cuando en realidad deben ser pasados usando args: como opciones de línea de comandos (-D).

Además, en ese mismo intento fallido, no se desactivó el análisis automático, lo cual generó un conflicto adicional reportado más adelante como:

*ERROR: You are running CI analysis while Automatic Analysis is enabled.*

**Se corrigió el archivo `sonarcloud.yml` para que usara la sintaxis correcta:**

args: >

- Dsonar.projectKey=AGM54\_sonarcloud-analysis
- Dsonar.organization=agm54
- Dsonar.host.url=https://sonarcloud.io
- Dsonar.sources=.

Se desactivó el "Automatic Analysis" en el panel de configuración del proyecto en SonarCloud.

## 2.

The screenshot shows the SonarCloud Analysis interface. The left sidebar contains navigation links: Summary, Jobs, SonarCloud Analysis (selected), Run details, Usage, and Workflow file. The main panel displays the 'SonarCloud Scan' log, which includes the same error messages as the first image. The bottom status bar shows the system tray with weather, search, and system icons.

**Durante otro intento de ejecutar el análisis, SonarCloud arrojó nuevamente un error crítico en la ejecución:**

```
ERROR: You must define the following mandatory properties for 'Unknown': sonar.projectKey, sonar.organization
```

Este fallo indica que el escáner SonarCloud no recibió las propiedades sonar.projectKey ni sonar.organization, necesarias para identificar correctamente el proyecto.

Esto ocurrió porque las propiedades fueron declaradas incorrectamente como variables de entorno (SONAR\_PROJECT\_KEY, SONAR\_ORGANIZATION), en lugar de ser pasadas como argumentos usando args: dentro del archivo YAML.

Se corrigió el archivo sonarcloud.yml para utilizar:

with:

args: >

- Dsonar.projectKey=AGM54\_sonarcloud-analysis
- Dsonar.organization=agm54
- Dsonar.host.url=https://sonarcloud.io
- Dsonar.sources=.

Esto permitió que el análisis se ejecutara correctamente en ejecuciones posteriores, pasando el Quality Gate sin errores.

### **Versión de malas prácticas**

```
import os

import sys


Data = ""


def DoStuff(x,y):

    print("Processing: ",x + y)
```



```
    return x + y

def DoStuff(x,y):  # Función duplicada

    print("Duplicated Function")

    return x*y


def BAD_read(f):

    file = open(f)

    contents = file.read()

    return contents


def BAD_write(f, d):

    file = open(f, 'w')

    file.write(d)

    file.flush()


def UnusedFunction():

    print("This function is never used")


def input_data():

    data = input("Enter something: ")  # sin validación

    return data


def processData(x):

    x = x.upper()
```

```

return x.strip()

def GLOBALS():

    global Data

    Data = BAD_read("nofile.txt")

    processed = processData(Data)

    print("Done:", processed)

    BAD_write("nofile.txt", input_data())

GLOBALS()

```

## Errores detectados:

The screenshot displays the SonarQube web interface for a project named 'sonarcloud-analysis'. The left sidebar shows the project overview, including 'Main Branch', 'Pull Requests', and 'Branches'. The main area is divided into a 'Filters' panel on the left and a list of detected issues on the right.

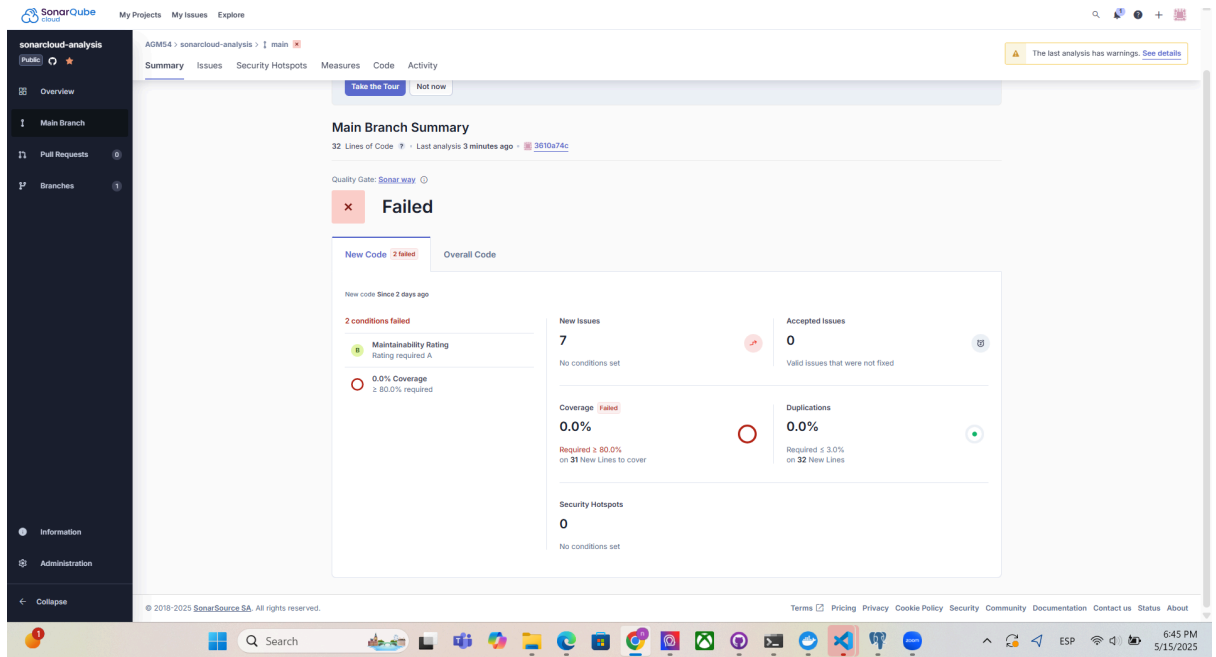
**Filters:**

- Software Quality:** Maintainability (7)
- Severity:** Medium (7)
- Clean Code Attribute:** Consistency (7)

**Detected Issues:**

- Rename function "DoStuff" to match the regular expression "[a-z][a-z0-9\_]+\$".** (L6, 10min effort, 1 minute ago, Code Smell, Major)
- Rename function "BAD\_read" to match the regular expression "[a-z][a-z0-9\_]+\$".** (L10, 10min effort, 1 minute ago, Code Smell, Major)
- Rename function "BAD\_write" to match the regular expression "[a-z][a-z0-9\_]+\$".** (L14, 10min effort, 1 minute ago, Code Smell, Major)
- Rename function "UnusedFunction" to match the regular expression "[a-z][a-z0-9\_]+\$".** (L19, 10min effort, 1 minute ago, Code Smell, Major)
- Rename function "processData" to match the regular expression "[a-z][a-z0-9\_]+\$".** (L31, 10min effort, 1 minute ago, Code Smell, Major)
- Rename function "GLOBALS" to match the regular expression "[a-z][a-z0-9\_]+\$".** (L35, 10min effort, 1 minute ago, Code Smell, Major)

The bottom of the screen shows the Windows taskbar with the system clock indicating 6:42 PM on 5/15/2025.



## 1. Rename function "DoStuff" (línea 6)

- **Problema:** El nombre DoStuff usa mayúsculas, lo cual viola la convención  $^[a-z\_][a-z0-9\_]*\$$  de Python.
- **Tipo:** Consistency – Code Smell (Maintainability)
- **Solución:** Renombrar la función a do\_stuff.

```
def do_stuff(x, y):
```

```
...
```

Consistency | Not identifiable

Rename function "DoStuff" to match the regular expression `^[a-z_][a-z0-9_]*$`.

Function names should comply with a naming convention [python:S1542](#)

Software qualities impacted: Maintainability

Open

Not assigned

Code Smell

Major

Where is the issue?

Why is this an issue?

Activity

More info

Open in IDE

Tags

convention ... +

Line affected

L6

Effort

10 min

Introduced

27 seconds ago

/main.py

See all issues in this file

1 ... import os

2 ... import sys

3 ...

4 ... Data = ""

5 ...

6 ... def DoStuff(x,y):

7 ... print("Processing: ",x + y)

8 ... return x + y

9 ...

10 ... def DoStuff(x,y): # Función duplicada

11 ... print("Duplicated Function")

12 ... return x\*y

13 ...

14 ... def BAD\_read(f):

15 ... file = open(f)

16 ... contents = file.read()

17 ... return contents

18 ...

19 ... def BAD\_write(f, d):

20 ... file = open(f, 'w')

21 ... file.write(d)

22 ... file.flush()

23 ...

24 ... def UnusedFunction():

25 ... print("This function is never used")

26 ...

27 ... def input\_data():

28 ... data = input("Enter something: ") # sin validación

## 2. Rename function "DoStuff" (línea 10)

- **Problema:** Es una función duplicada con el mismo nombre, también con mayúsculas.
- **Solución:** Igual que el anterior, pero además debes **eliminar la duplicación** (no puedes tener dos funciones con el mismo nombre).

Uncovered code New

def DoStuff(x,y): # Función duplicada

Rename function "DoStuff" to match the regular expression `^[a-z_][a-z0-9_]*$`.

print("Duplicated Function")

return x\*y

## 3. Rename function "BAD\_read" (línea 14)

- **Problema:** El nombre contiene mayúsculas y guiones bajos iniciales incorrectos según la convención.
- **Solución:** Renombrar a `bad_read` (aunque también deberías cambiar ese nombre por uno más descriptivo, como `read_file`).

```
def BAD_read(f):  
    file = open(f)  
    contents = file.read()  
    return contents
```

Rename function "BAD\_read" to match the regular expression `^[a-z][a-z0-9]*$`.

---

#### 4. Rename function "BAD\_write" (línea 19)

- **Problema:** Mismo caso que el anterior.
- **Solución:** Renombrar a `bad_write` o mejor `write_file`.

```
def BAD_write(f, d):  
    file = open(f, 'w')  
    file.write(d)  
    file.flush()
```

Rename function "BAD\_write" to match the regular expression `^[a-z][a-z0-9]*$`.

---

#### 5. Rename function "UnusedFunction" (línea 24)

- **Problema:** Nombre con mayúsculas, además de no ser usada.
- **Solución:** Renombrar a `unused_function`, y si no se usa, **eliminarla** para evitar código muerto.

```
def UnusedFunction():  
    print("This function is never used")
```

Rename function "UnusedFunction" to match the regular expression `^[a-z][a-z0-9]*$`.

---

## 6. Rename function "processData" (línea 31)

- **Problema:** Mezcla mayúscula y minúscula estilo camelCase, lo cual no es aceptado en Python.
- **Solución:** Renombrar a process\_data.

```
def processData(x):  
    x = x.upper()  
    return x.strip()
```

Rename function "processData" to match the regular expression `^[a-z][a-z0-9_]*$`.

## 7. Rename function "GLOBALS" (línea 35)

- **Problema:** Nombre completamente en mayúsculas. Las funciones en Python deben estar en minúscula con guiones bajos si es necesario.
- **Solución:** Renombrar a globals (aunque ese nombre también debería evitarse porque es una palabra clave).

```
def GLOBALS():  
    global Data  
    Data = BAD_read("nofile.txt")  
    processed = processData(Data)  
    print("Done:", processed)  
    BAD_write("nofile.txt", input_data())
```

Rename function "GLOBALS" to match the regular expression `^[a-z][a-z0-9_]*$`.

Link: <https://github.com/AGM54/sonarcloud-analysis>