

Instalacion phpDocumentor

1ºInstalamos Docker

“sudo apt update”

“sudo apt install docker.io”

```
osboxes@osboxes:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-buildx
  docker-compose-v2 docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd docker.io pigz runc ubuntu-fan
0 upgraded, 6 newly installed, 0 to remove and 521 not upgraded.
Need to get 78.3 MB of archives.
After this operation, 300 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4
kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.12-0ubuntu2~22
.04.1 [8,405 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.24-0ubun
tu1~22.04.1 [37.3 MB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 26.1.3-0u
buntu1~22.04.1 [32.5 MB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 78.3 MB in 10s (7,502 kB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 251230 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.6-1_amd64.deb ...
Unpacking pigz (2.6-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.12-0ubuntu2~22.04.1_amd64.deb ...
Unpacking runc (1.1.12-0ubuntu2~22.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.24-0ubuntu1~22.04.1_amd64.deb ...
Unpacking containerd (1.7.24-0ubuntu1~22.04.1) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../4-docker.io_26.1.3-0ubuntu1~22.04.1_amd64.deb ...
```



Al descargar docker.io lo instalaremos globalmente

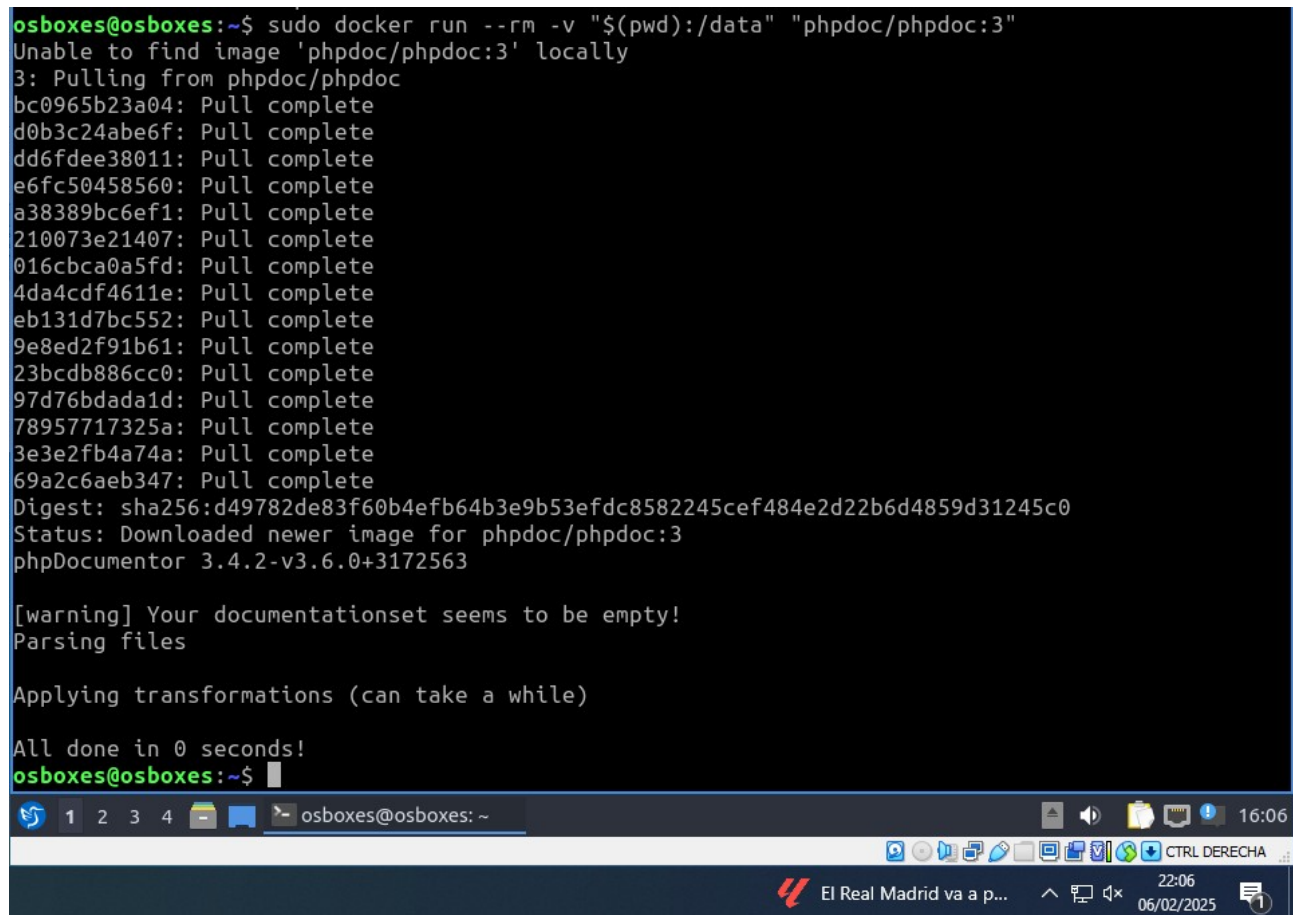
“docker run --rm -v "\$(pwd):/data" "phpdoc/phpdoc:3”

```
osboxes@osboxes:~$ sudo docker run --rm -v "$(pwd):/data" "phpdoc/phpdoc:3"
Unable to find image 'phpdoc/phpdoc:3' locally
3: Pulling from phpdoc/phpdoc
bc0965b23a04: Pull complete
d0b3c24abe6f: Pull complete
dd6fdee38011: Pull complete
e6fc50458560: Pull complete
a38389bc6ef1: Pull complete
210073e21407: Pull complete
016cbca0a5fd: Pull complete
4da4cdf4611e: Pull complete
eb131d7bc552: Pull complete
9e8ed2f91b61: Pull complete
23bcd8b886cc0: Pull complete
97d76bdada1d: Pull complete
78957717325a: Pull complete
3e3e2fb4a74a: Pull complete
69a2c6aeb347: Pull complete
Digest: sha256:d49782de83f60b4efb64b3e9b53efdc8582245cef484e2d22b6d4859d31245c0
Status: Downloaded newer image for phpdoc/phpdoc:3
phpDocumentor 3.4.2-v3.6.0+3172563

[warning] Your documentationset seems to be empty!
Parsing files

Applying transformations (can take a while)

All done in 0 seconds!
osboxes@osboxes:~$
```



Ahora crearemos un archivo php con el siguiente código:

```
<?php
/**
 * Suma dos números e devuelve o resultado.
 *
 * @param int|float $a Primeiro número.
 * @param int|float $b Segundo número.
 * @return int|float A suma dos dous números.
 */
function suma($a, $b) {
    return $a + $b;
}
// Exemplo de uso
echo suma(3, 5);
?>
```

```
osboxes@osboxes: ~  
GNU nano 6.2                                archivo.php *  
" <?php  
/**  
 * Suma dous números e devolve o resultado.  
 *  
 * @param int|float $a Primeiro número.  
 * @param int|float $b Segundo número.  
 * @return int|float A suma dos dous números.  
 */  
function suma($a, $b) {  
    return $a + $b;  
}  
// Exemplo de uso  
echo suma(3, 5);  
"  
  
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location  
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line  
  
1 2 3 4 osboxes@osboxes: ~ 16:09  
CTRL DERECHA  
9°C Nublado 22:09 06/02/2025
```

Y ahora generamos la documentación en HTML

“sudo docker run --rm -v \$(pwd):/data phpdoc/phpdoc -d /data -t /data/docs”

```
osboxes@osboxes:~$ sudo docker run --rm -v $(pwd):/data phpdoc/phpdoc -d /data -t /data/docs
Unable to find image 'phpdoc/phpdoc:latest' locally
latest: Pulling from phpdoc/phpdoc
bc0965b23a04: Already exists
d0b3c24abe6f: Already exists
dd6fdee38011: Already exists
e6fc50458560: Already exists
a38389bc6ef1: Already exists
210073e21407: Already exists
016cbca0a5fd: Already exists
4da4cdf4611e: Already exists
eb131d7bc552: Already exists
218a68afc600: Pull complete
550cc808a750: Pull complete
f37d1e0ac5be: Pull complete
9a776d461b26: Pull complete
3479fd7d6432: Pull complete
1d5fdceec52d: Pull complete
Digest: sha256:64659f18cbaf606eb002557a2466180ab5cb9a7028f4e4ded7741534c6689d97
Status: Downloaded newer image for phpdoc/phpdoc:latest
phpDocumentor 3.4.2-v3.6.0+3172563

Parsing files

 1/1 [=====] 100%[alert] Unable to parse file "archivo.php", an error
 was detected: Syntax error, unexpected EOF on line 15

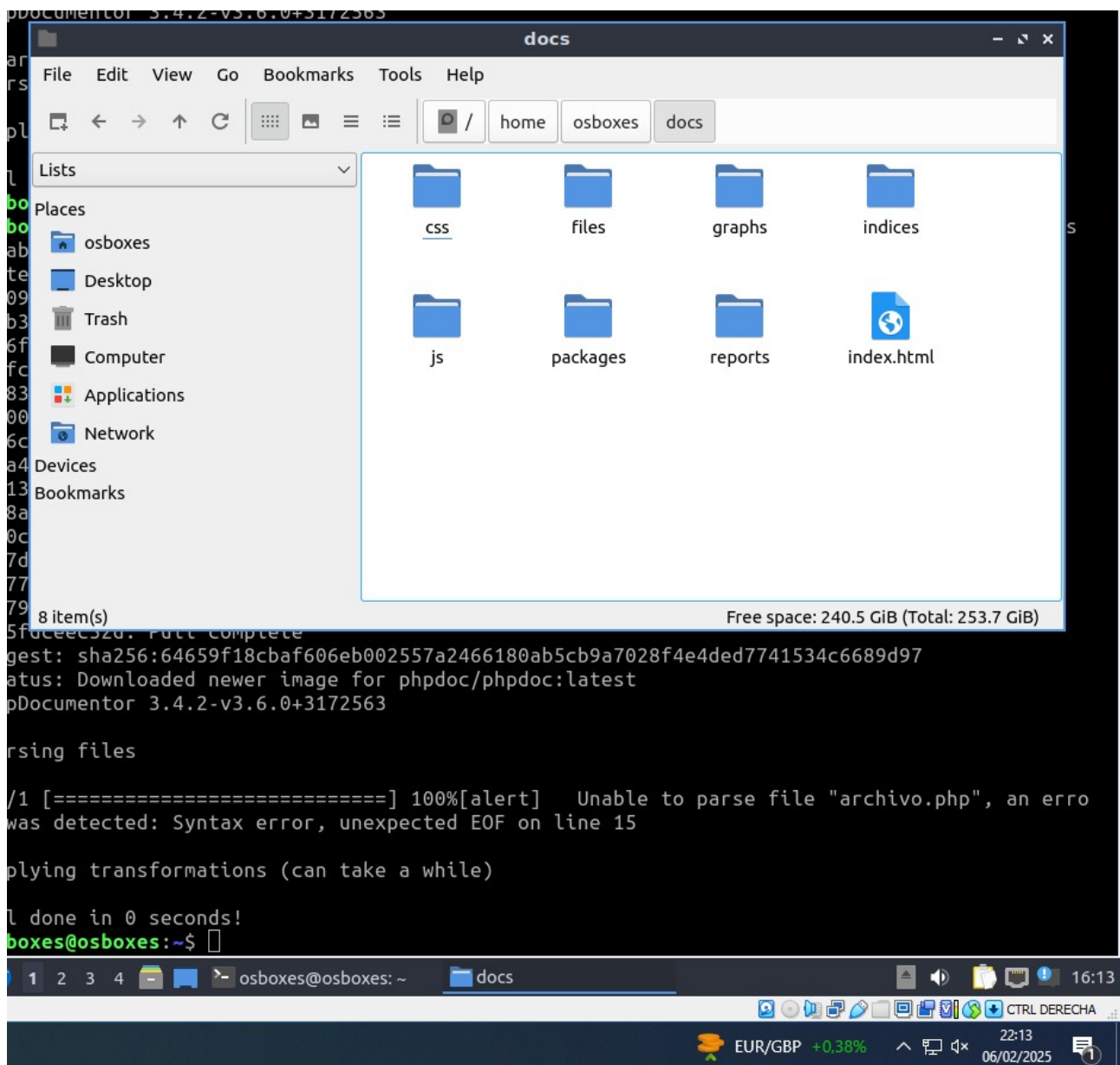
Applying transformations (can take a while)

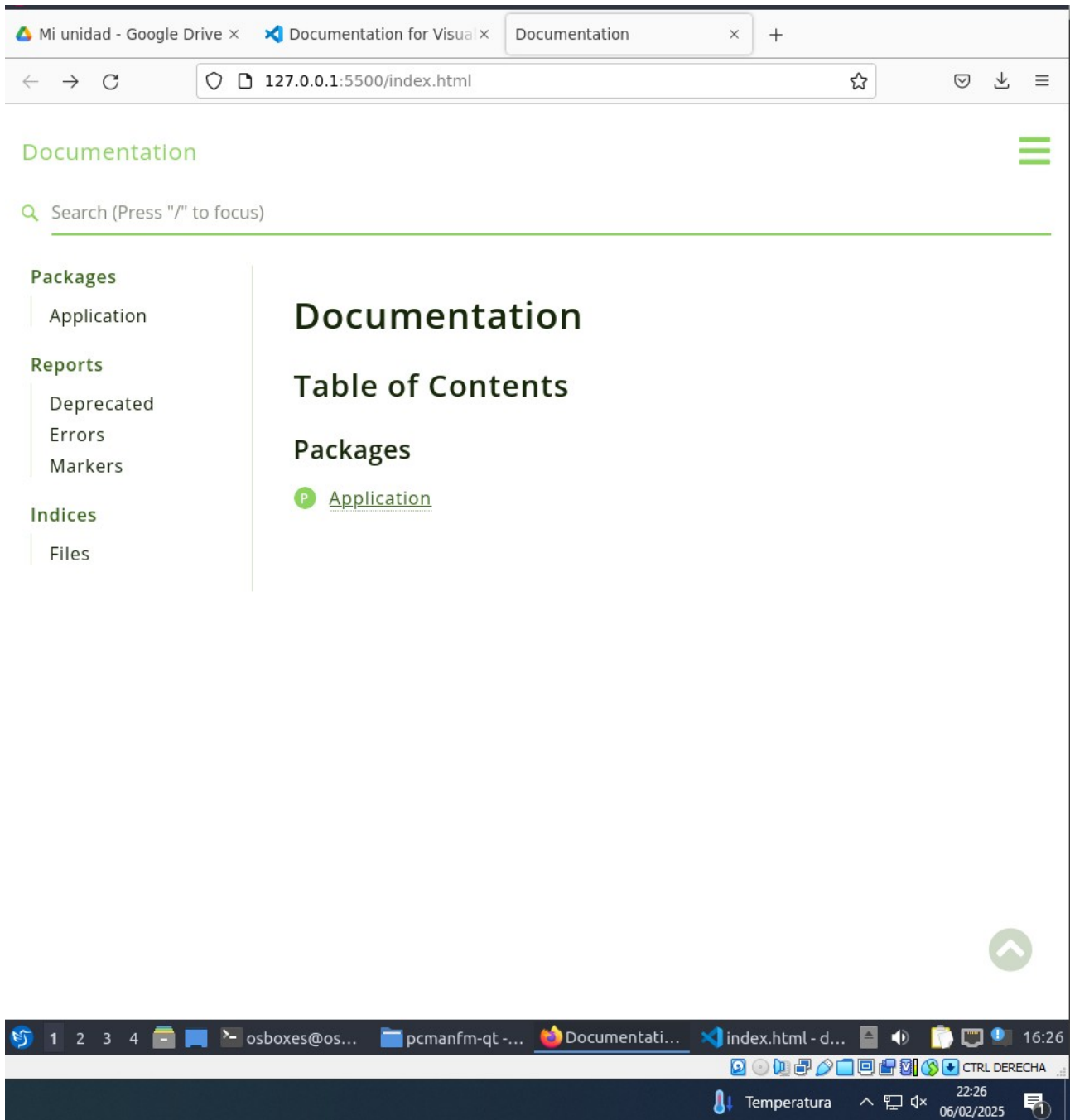
All done in 0 seconds!
```

```
osboxes@osboxes:~$
```



Una vez generada, podemos abrir la documentación en el navegador





Instalacion JavaDoc

sudo apt update

sudo apt install default-jdk

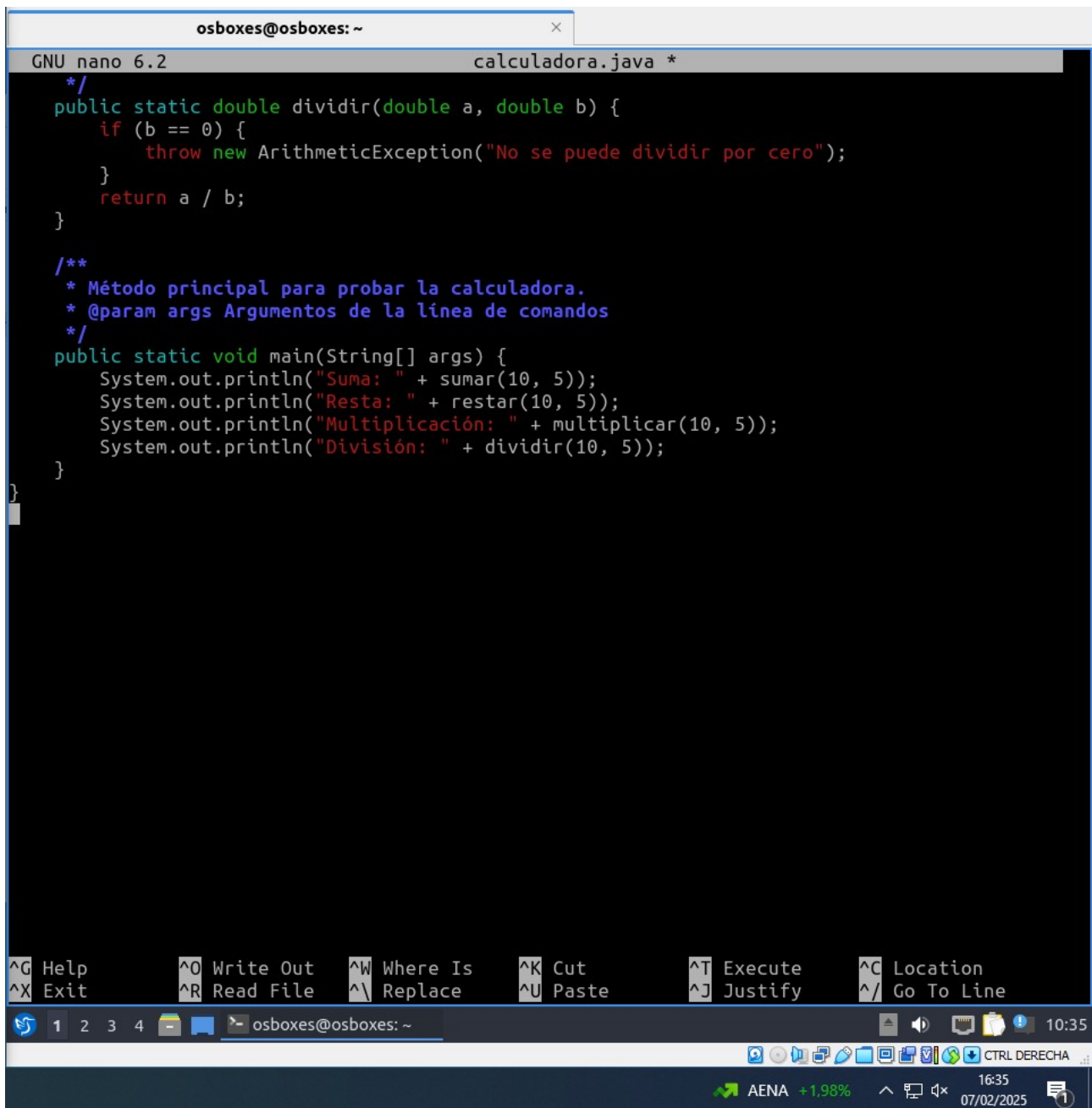
```
osboxes@osboxes:~$ sudo apt install default-jdk
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ca-certificates-java default-jdk-headless default-jre default-jre-headless
  fonts-dejavu-extra java-common libatk-wrapper-java libatk-wrapper-java-jni libice-dev
  libpthread-stubs0-dev libsm-dev libx11-6 libx11-dev libx11-xcb1 libxau-dev libxcb1-dev
  libxdmcp-dev libxt-dev openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  libice-doc libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo openjdk-11-source
  visualvm fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei
The following NEW packages will be installed:
  ca-certificates-java default-jdk default-jdk-headless default-jre default-jre-headless
  fonts-dejavu-extra java-common libatk-wrapper-java libatk-wrapper-java-jni libice-dev
  libpthread-stubs0-dev libsm-dev libx11-dev libxau-dev libxcb1-dev libxdmcp-dev libxt-dev
  openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless
  x11proto-dev xorg-sgml-doctools xtrans-dev
The following packages will be upgraded:
  libx11-6 libx11-xcb1
2 upgraded, 24 newly installed, 0 to remove and 519 not upgraded.
Need to get 123 MB of archives.
After this operation, 275 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libx11-6 amd64 2:1.7.5-1ubuntu0.3 [667 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libx11-xcb1 amd64 2:1.7.5-1ubuntu0.3 [7,802 B]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 java-common all 0.72build2 [6,782 B]
```

Verificamos la instalación

“javac -version”

```
osboxes@osboxes:~$ javac -version
javac 11.0.26
osboxes@osboxes:~$
```


Creamos el archivo java con su código correspondiente:



The screenshot shows a terminal window with the nano text editor open. The editor is editing a file named 'calculadora.java'. The code is written in Java and includes a division method and a main method. The terminal window has a title bar that says 'osboxes@osboxes: ~'. The nano editor's status bar at the bottom shows 'GNU nano 6.2' and 'calculadora.java *'. The code is as follows:

```
*/
public static double dividir(double a, double b) {
    if (b == 0) {
        throw new ArithmeticException("No se puede dividir por cero");
    }
    return a / b;
}

/**
 * Método principal para probar la calculadora.
 * @param args Argumentos de la línea de comandos
 */
public static void main(String[] args) {
    System.out.println("Suma: " + sumar(10, 5));
    System.out.println("Resta: " + restar(10, 5));
    System.out.println("Multiplicación: " + multiplicar(10, 5));
    System.out.println("División: " + dividir(10, 5));
}
}
```

The terminal window also shows a bottom status bar with various icons and the time '10:35'. The system tray at the bottom right shows the date '07/02/2025' and the time '16:35'.

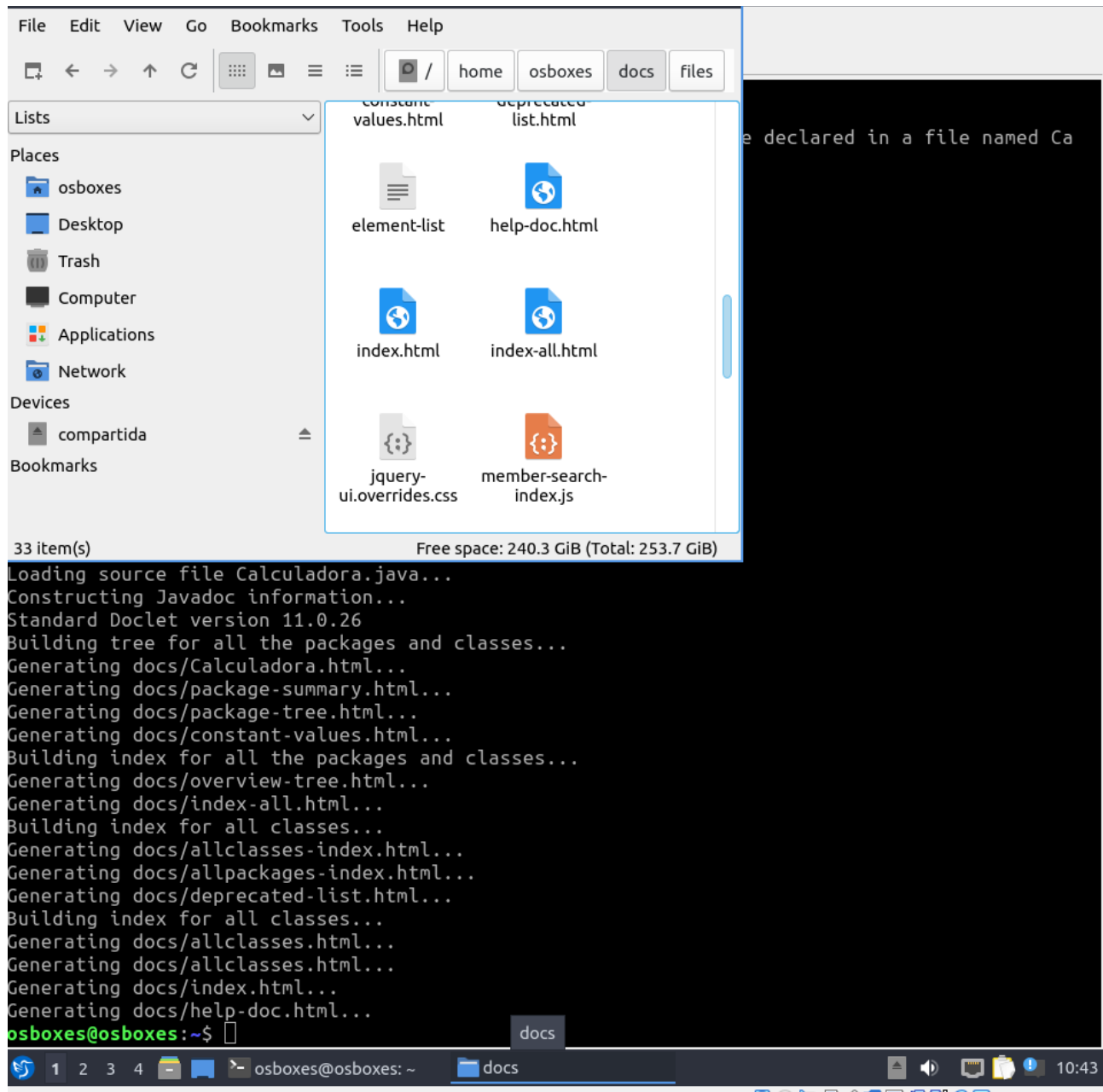
Si queremos generar la documentación deberemos ejecutar el siguiente comando:

```
javadoc -d docs Calculadora.java
```

```
osboxes@osboxes:~$ sudo javadoc -d docs Calculadora.java
Loading source file Calculadora.java...
Constructing Javadoc information...
Standard Doclet version 11.0.26
Building tree for all the packages and classes...
Generating docs/Calculadora.html...
Generating docs/package-summary.html...
Generating docs/package-tree.html...
Generating docs/constant-values.html...
Building index for all the packages and classes...
Generating docs/overview-tree.html...
Generating docs/index-all.html...
Building index for all classes...
Generating docs/allclasses-index.html...
Generating docs/allpackages-index.html...
Generating docs/deprecated-list.html...
Building index for all classes...
Generating docs/allclasses.html...
Generating docs/allclasses.html...
Generating docs/index.html...
Generating docs/help-doc.html...
osboxes@osboxes:~$
```

1 2 3 4 osboxes@osboxes: ~ docs 10:41

Vamos a la carpeta docs:



Calculadora

127.0.0.1:5500/Calculadora.html

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

Class Calculadora

java.lang.Object
Calculadora

```
public class Calculadora
extends java.lang.Object
```

Clase Calculadora que realiza operaciones matemáticas básicas.

Constructor Summary

Constructors
Constructor
Calculadora()

Method Summary

All Methods	Static Methods	Concrete Methods
Modifier and Type	Method	Description
static double	dividir(double a, double b)	Divide dos números.
static void	main(java.lang.String[] args)	Método principal para probar la calculadora.
static double	multiplicar(double a, double b)	Multiplica dos números.
static double	restar(double a, double b)	Resta dos números.
static double	sumar(double a, double b)	Suma dos números.

1 2 3 4 osboxes@os... docs index.html - docs - Visual Studio Code Calculadora ... 10:44

PACKAGECLASSTREEDEPRECATINDEXHELP

ALL CLASSES

SEARCH:

SUMMARY: NESTED | FIELD | CONSTR | METHODDETAIL: FIELD | CONSTR | METHOD

Method Summary

All MethodsStatic MethodsConcrete Methods

Modifier and Type	Method	Description
static double	<code>dividir(double a, double b)</code>	Divide dos números.
static void	<code>main(java.lang.String[] args)</code>	Método principal para probar la calculadora.
static double	<code>multiplicar(double a, double b)</code>	Multiplica dos números.
static double	<code>restar(double a, double b)</code>	Resta dos números.
static double	<code>sumar(double a, double b)</code>	Suma dos números.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Calculadora

```
public Calculadora()
```

Method Detail

sumar

```
public static double sumar(double a, double b)
```

Suma dos números.

Parameters:

a - Primer número

b - Segundo número

Returns:

La suma de a y b

restar

```
public static double restar(double a, double b)
```

Resta dos números.

Parameters:

a - Minuendo

b - Sustraendo

Returns:

La resta de a y b