

PROGRAMACIÓN 20/21 DAW

# ACTIVIDAD 2. EVALUACIÓN INDIVIDUAL. CONFIGURACIÓN DEL ENTORNO JAVA

Por Rodrigo Sendino

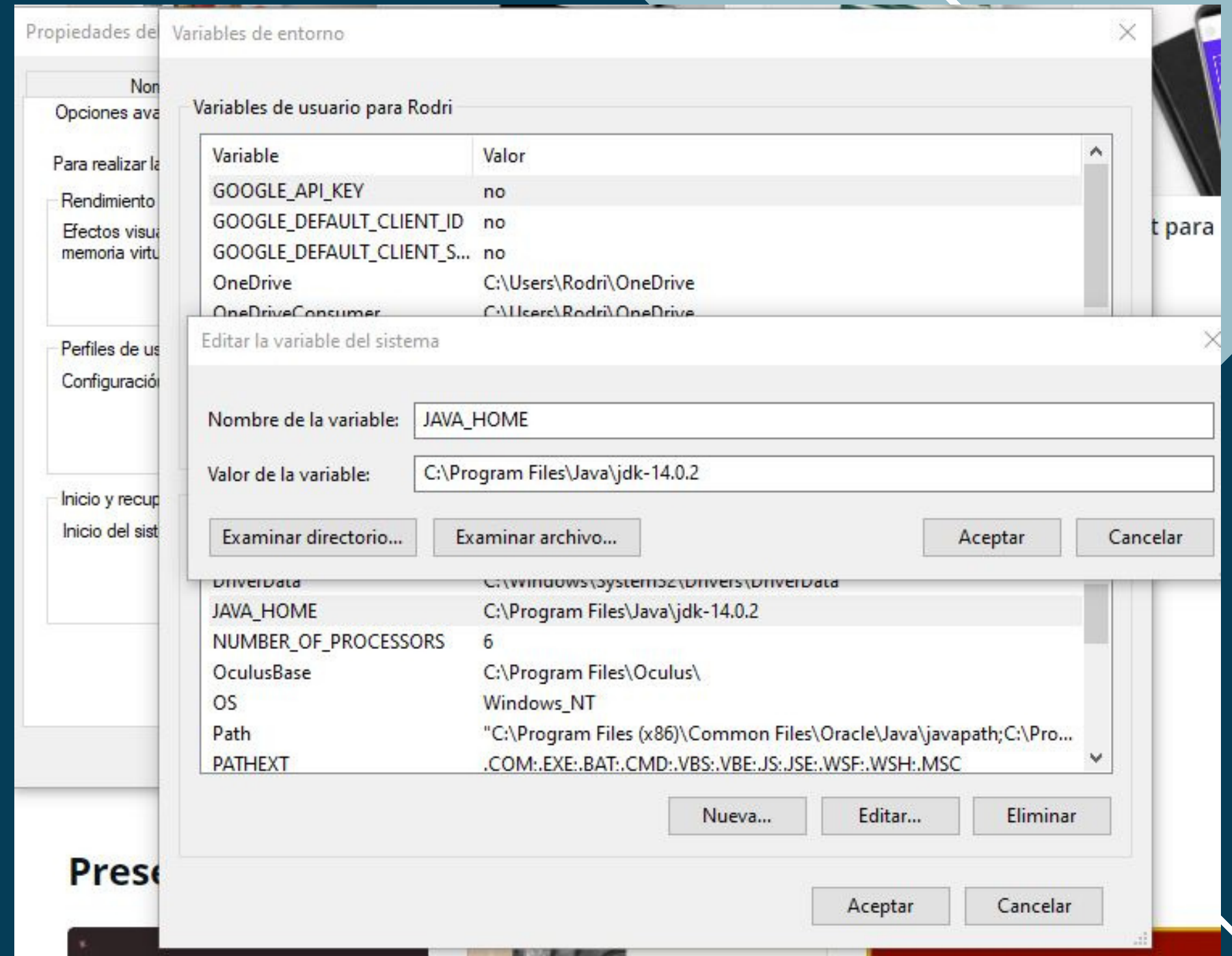
# Ejercicio 1

**Configura tu equipo para poder crear el primer programa “Hola Mundo”. Tendrás que instalar el JDK y configurar las variables de entorno tal y como aprendiste durante el estudio de la unidad. Escribe todos los pasos que has seguido y finalmente añade una imagen con el recorte de pantalla del programa en la consola o símbolo del sistema.**

# Configuración JAVA\_HOME

Ir a las variables de entorno y crear una nueva  
Menú inicio / clic derecho en Equipo / Configuración  
avanzada del sistema / Variables de entorno

La nueva variable la llamamos (JAVA\_HOME)  
y colocamos la ruta donde se encuentra la versión de Java en uso





# Configuración Classpath

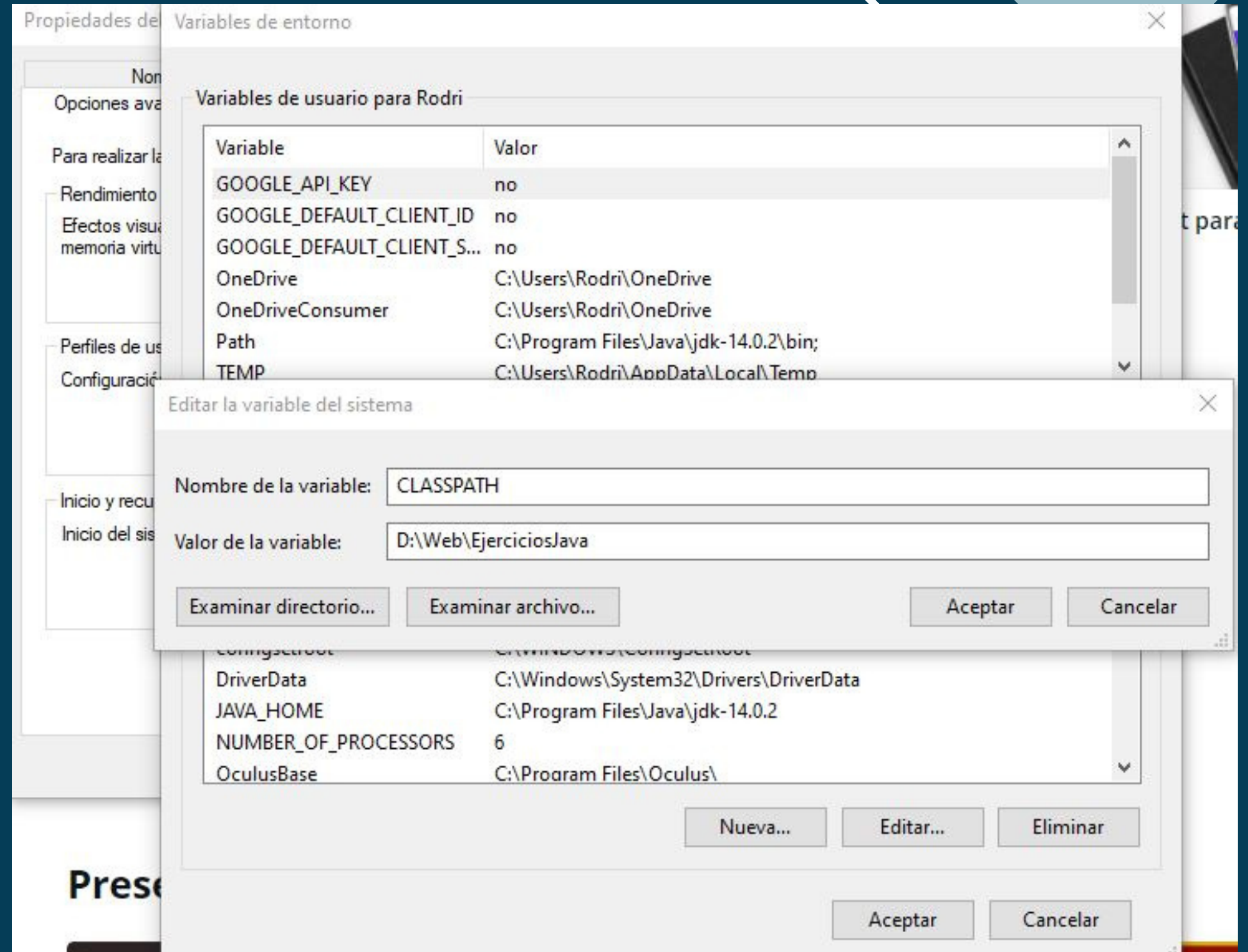
Creamos una carpeta donde se guardaran los archivos **.java**  
en la direccion

D:\Web\EjerciciosJava

accedemos a las variables de entrono

Menú inicio / clic derecho en Equipo / Configuración  
avanzada del sistema / Variables de entorno

Creamos una nueva variable llamada (CLASSPATH)  
donde alojaremos la direccion anterior de la carpera creada

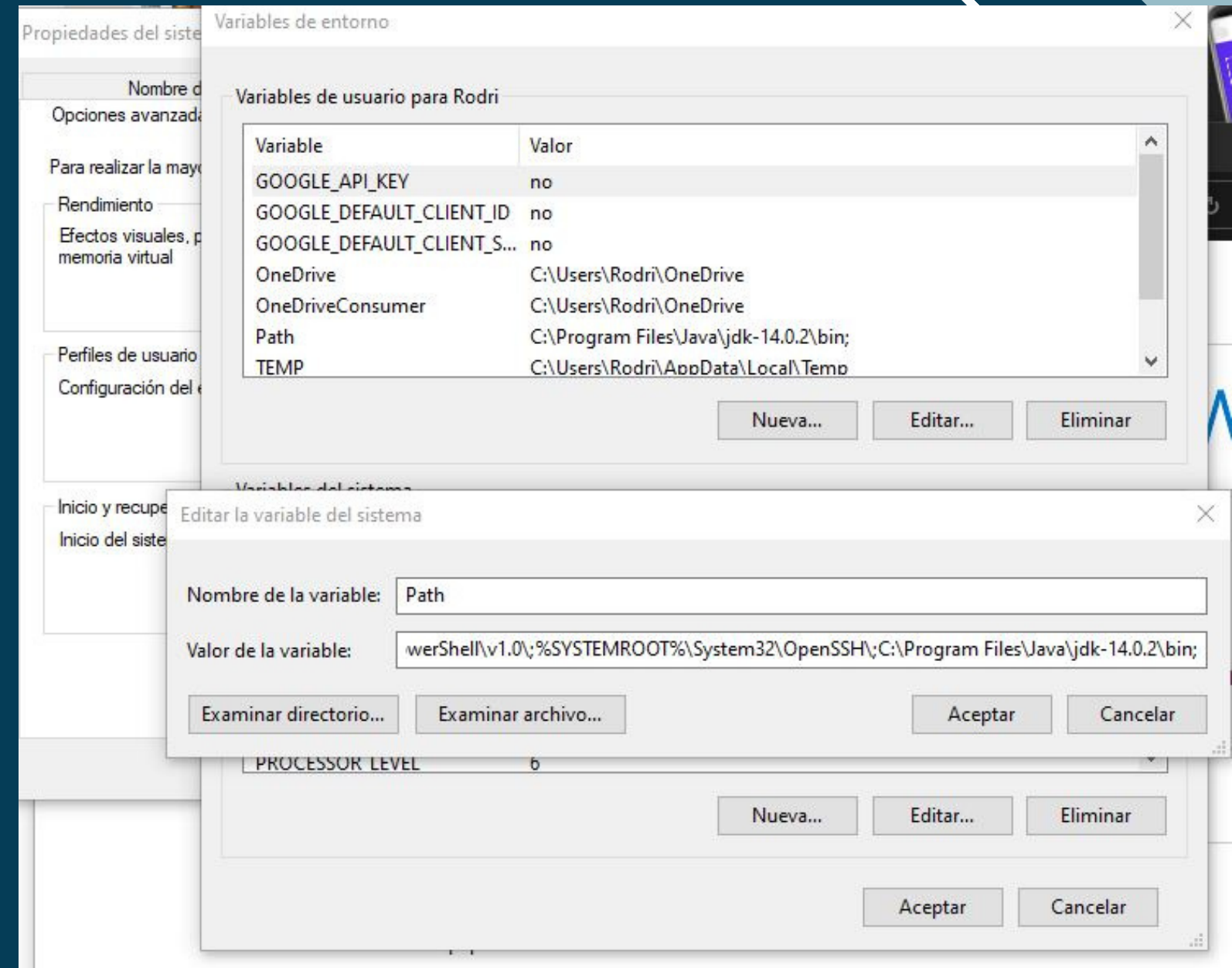


# Configuración Path

Ir a la variables de entorno y editamos la variable Path

Menú inicio / clic derecho en Equipo / Configuración  
avanzada del sistema / Variables de entorno

Y pegamos la ruta hasta la carpeta bin de la nueva instalación de Java  
añadiendo ; al final

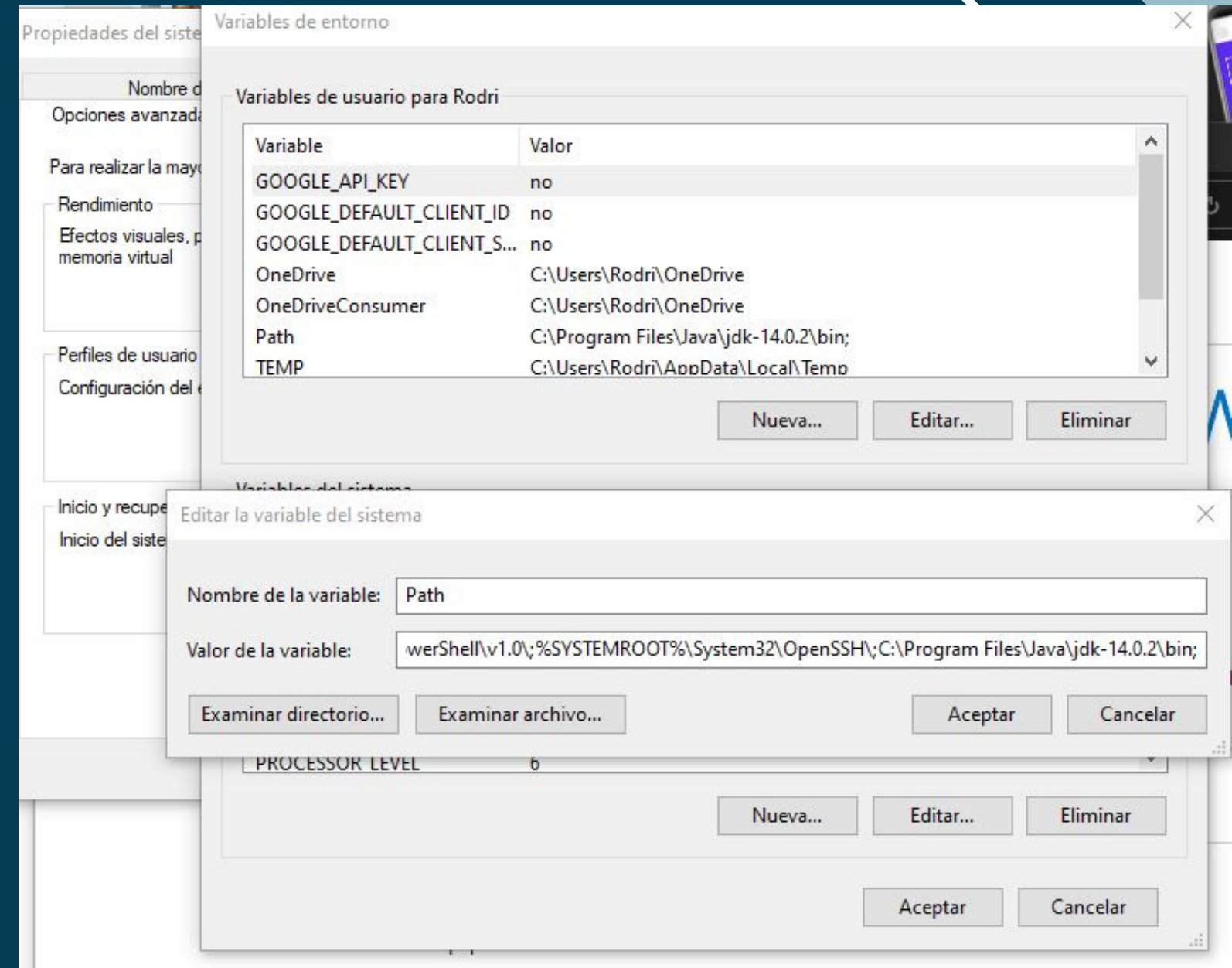


# Configuración Path

Ir a la variables de entorno y editamos la variable Path

Menú inicio / clic derecho en Equipo / Configuración  
avanzada del sistema / Variables de entorno

Y pegamos la ruta hasta la carpeta bin de la nueva instalación de Java  
añadiendo ; al final





# Hola mundo

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Versión 10.0.18363.1139]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\Rodri>d:

D:\>cd Web

D:\Web>cd EjerciciosJva
El sistema no puede encontrar la ruta especificada.

D:\Web>cd EjerciciosJava

D:\Web\EjerciciosJava>dir
El volumen de la unidad D es Data
El número de serie del volumen es: 1A07-5C19

Directorio de D:\Web\EjerciciosJava

28/10/2020  14:20    <DIR>          .
28/10/2020  14:20    <DIR>          ..
28/10/2020  14:20                108 Saludo.java
                1 archivos             108 bytes
                2 dirs  282.568.593.408 bytes libres

D:\Web\EjerciciosJava>javac Saludo.java

D:\Web\EjerciciosJava>
```

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Versión 10.0.18363.1139]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\Rodri>d:

D:\>cd Web

D:\Web>cd EjerciciosJava

D:\Web\EjerciciosJava>dir
El volumen de la unidad D es Data
El número de serie del volumen es: 1A07-5C19

Directorio de D:\Web\EjerciciosJava

28/10/2020  14:35    <DIR>          .
28/10/2020  14:35    <DIR>          ..
28/10/2020  14:35                416 Saludo.class
28/10/2020  14:20                108 Saludo.java
                2 archivos             524 bytes
                2 dirs  282.568.536.064 bytes libres

D:\Web\EjerciciosJava>Java Saludo
Hola Mundo

D:\Web\EjerciciosJava>
```

# Ejercicio 2

**Modifica el programa anterior para que acepte dos argumentos en línea de comandos y que después escriba en pantalla la palabra “Hola “ seguida del segundo argumento.**

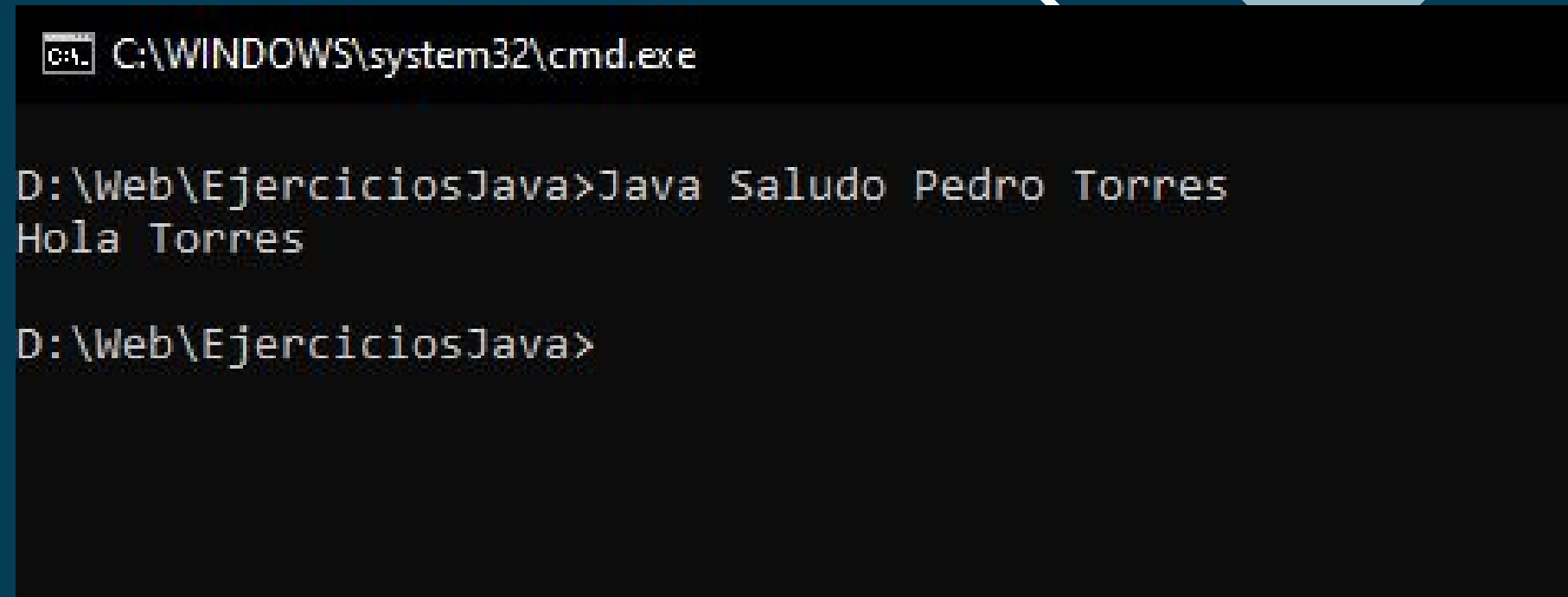
**Suponiendo que el archivo de código fuente se llama Saludo.java un ejemplo de ejecución sería:**

- **Java Saludo Pedro Torres**
- **Hola Torres**



# Ejecutar Hola Torres

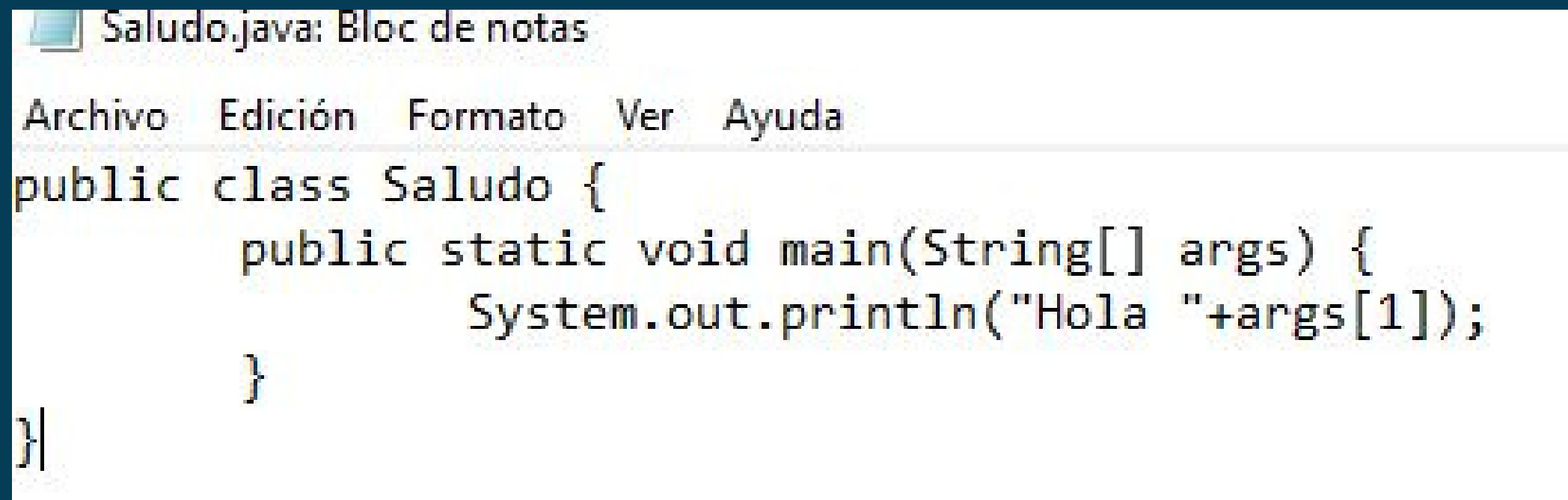
Para lograr que se imprima Torres se escribe args[1], ya que args[0] seria Pedro y nuestro objetivo es imprimir solo el apellido



```
C:\WINDOWS\system32\cmd.exe

D:\Web\EjerciciosJava>Java Saludo Pedro Torres
Hola Torres

D:\Web\EjerciciosJava>
```



```
Saludo.java: Bloc de notas

Archivo  Edición  Formato  Ver  Ayuda

public class Saludo {
    public static void main(String[] args) {
        System.out.println("Hola "+args[1]);
    }
}
```

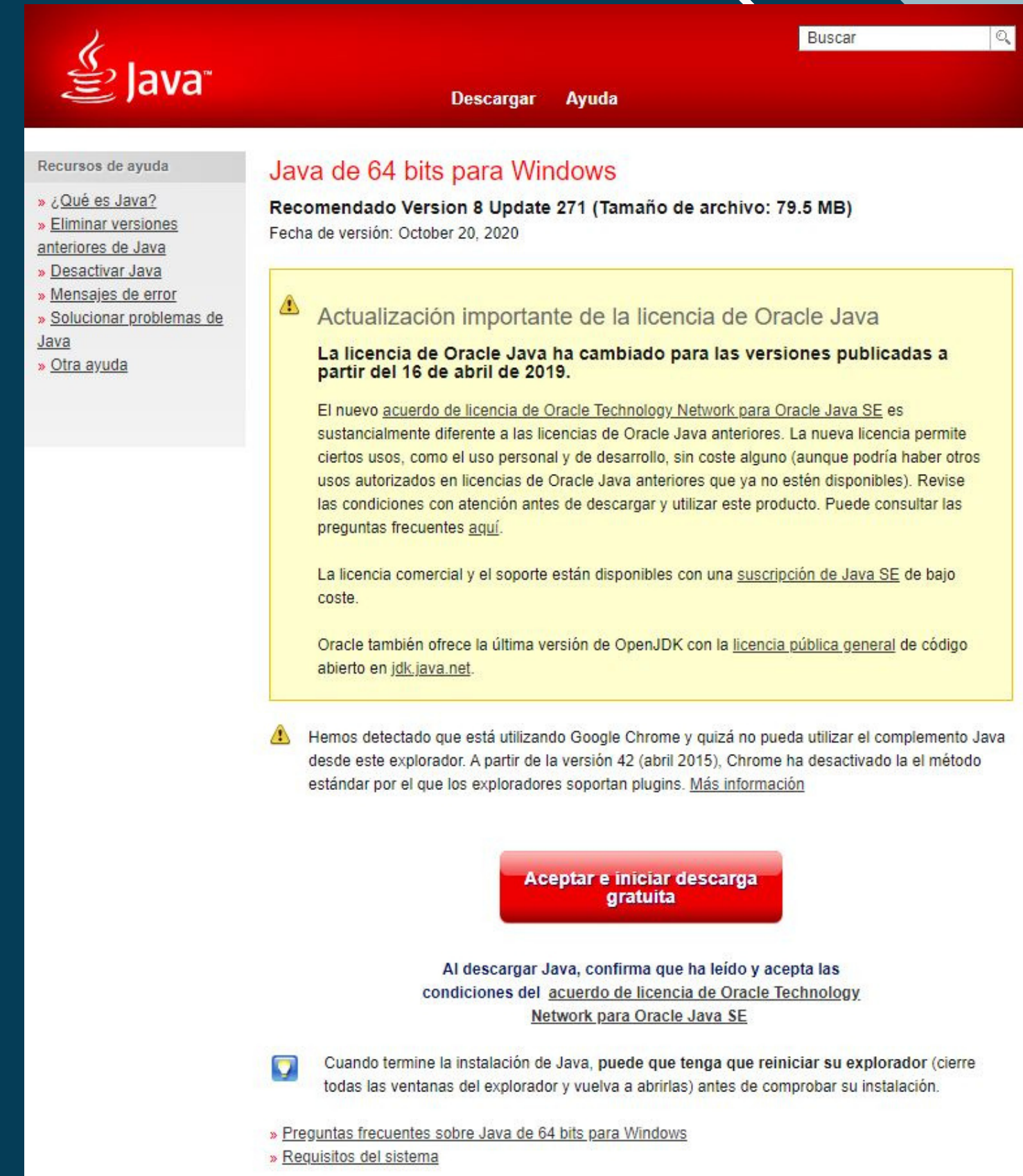
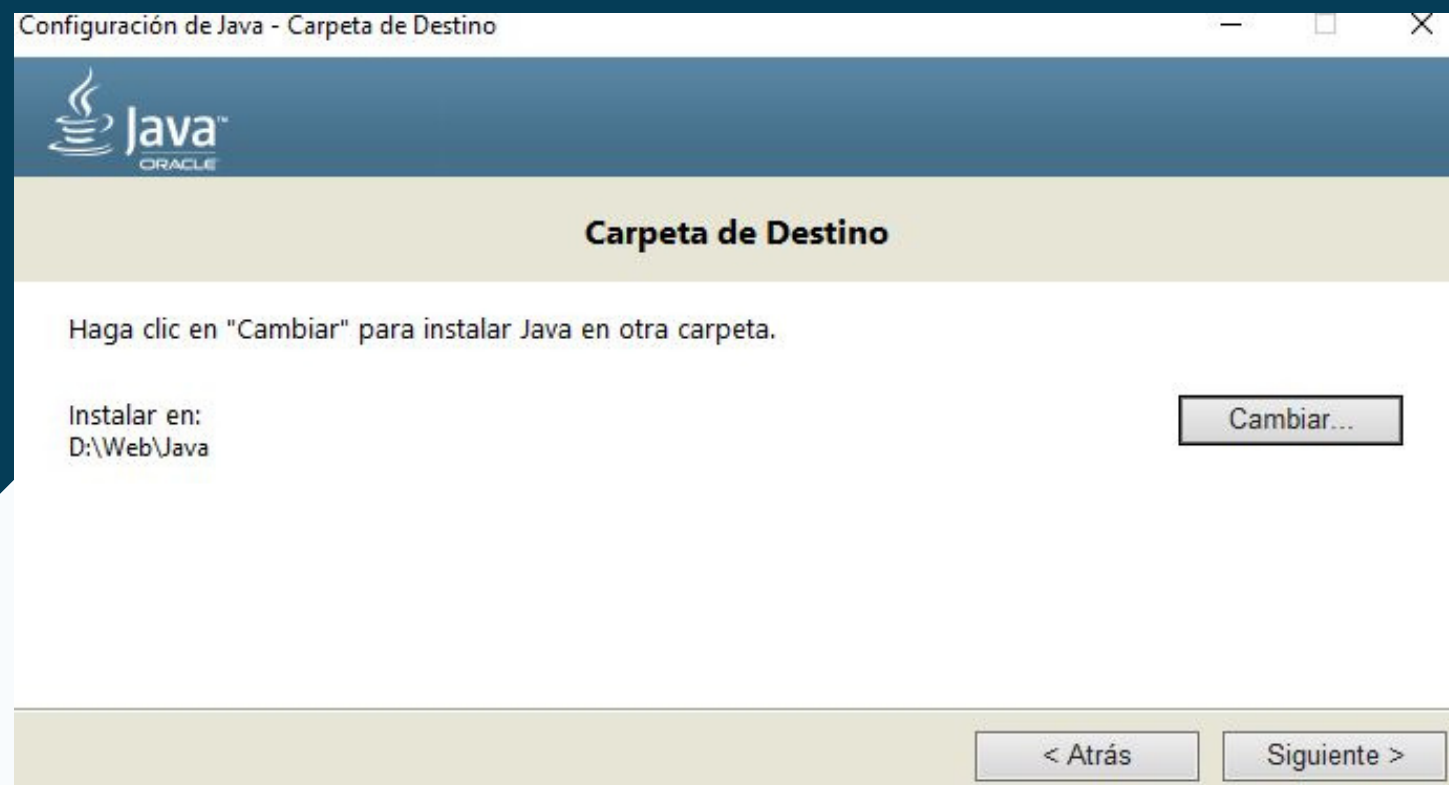
# Ejercicio 3

**Ahora crea el mismo programa “Hola Mundo” pero en Eclipse. Escribe todos los pasos que has seguido desde la descarga de Eclipse hasta la ejecución de tu primer programa. Finalmente añade una imagen de la pantalla de Eclipse tras la ejecución del programa donde se vea el código y el panel de ejecución con el resultado.**

# Descarga e instalacion

Primero descargamos e instalamos el jre de java para ello iremos a la siguiente pagina de Java <https://www.java.com/es/download/>

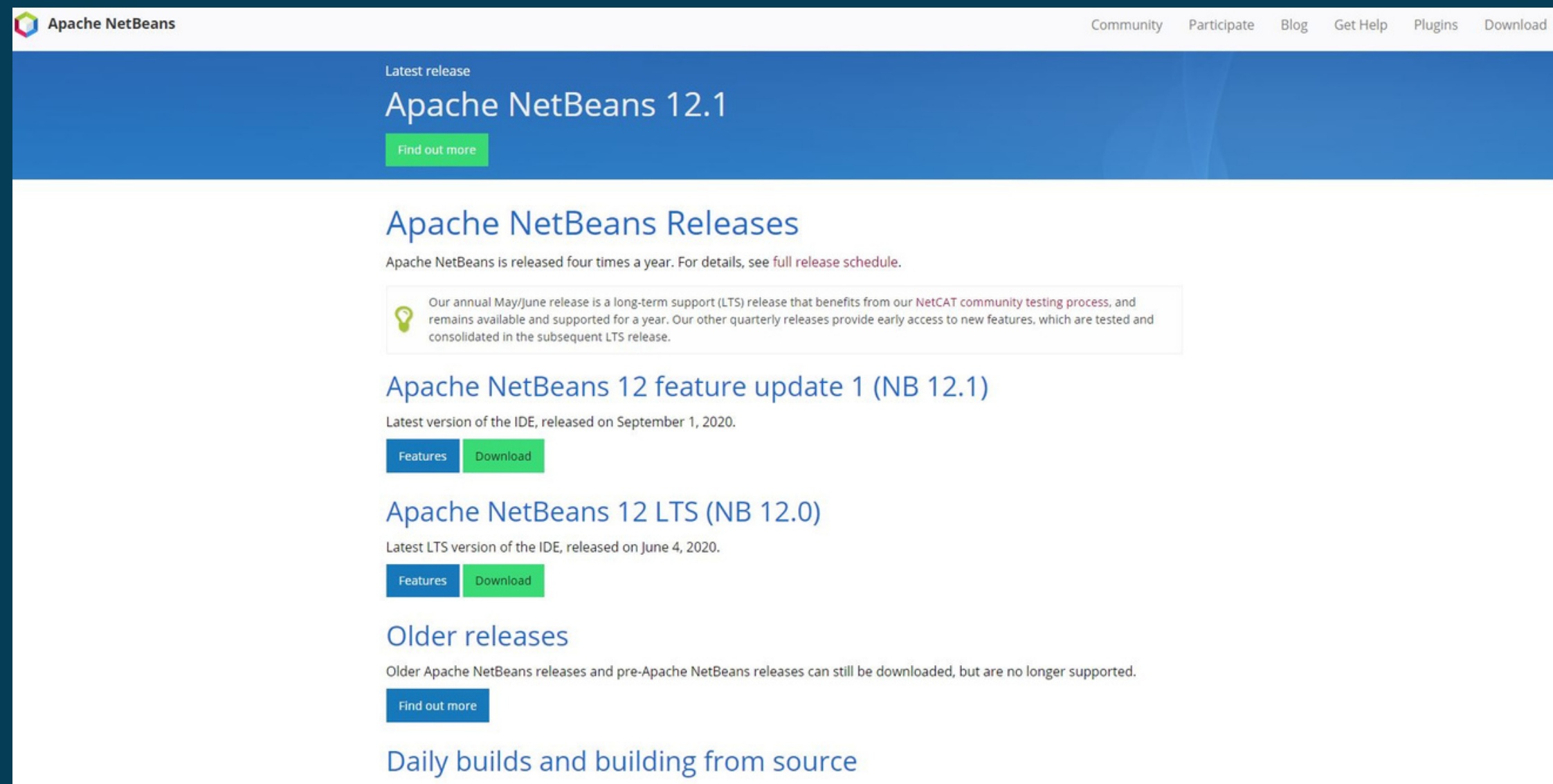
Una vez descargado instalaremos el archivo .exe y elijamos la carpeta de instalacion





# Descarga e instalacion

Luego iremos a la pagina  
<https://netbeans.apache.org/download/index.html>  
y descargamos la version mas reciente del IDE clickando en  
download



The screenshot shows the Apache NetBeans website. At the top, there's a navigation bar with links: Community, Participate, Blog, Get Help, Plugins, and Download. The main content area has a blue header with the text "Latest release" and "Apache NetBeans 12.1". Below this is a green button labeled "Find out more". The section is titled "Apache NetBeans Releases" and includes a note about the release schedule: "Apache NetBeans is released four times a year. For details, see [full release schedule](#)." A light blue box contains a lightbulb icon and text explaining the LTS release process. Below this, there are two main release sections: "Apache NetBeans 12 feature update 1 (NB 12.1)" and "Apache NetBeans 12 LTS (NB 12.0)". Each section includes a brief description, the release date, and two buttons: "Features" and "Download". At the bottom, there's a section for "Older releases" with a note that they are no longer supported and a "Find out more" button. The final section is "Daily builds and building from source".

Apache NetBeans

Community Participate Blog Get Help Plugins Download

Latest release  
**Apache NetBeans 12.1**  
[Find out more](#)

## Apache NetBeans Releases

Apache NetBeans is released four times a year. For details, see [full release schedule](#).

Our annual May/June release is a long-term support (LTS) release that benefits from our [NetCAT community testing process](#), and remains available and supported for a year. Our other quarterly releases provide early access to new features, which are tested and consolidated in the subsequent LTS release.

### Apache NetBeans 12 feature update 1 (NB 12.1)

Latest version of the IDE, released on September 1, 2020.

[Features](#) [Download](#)

### Apache NetBeans 12 LTS (NB 12.0)

Latest LTS version of the IDE, released on June 4, 2020.

[Features](#) [Download](#)

### Older releases

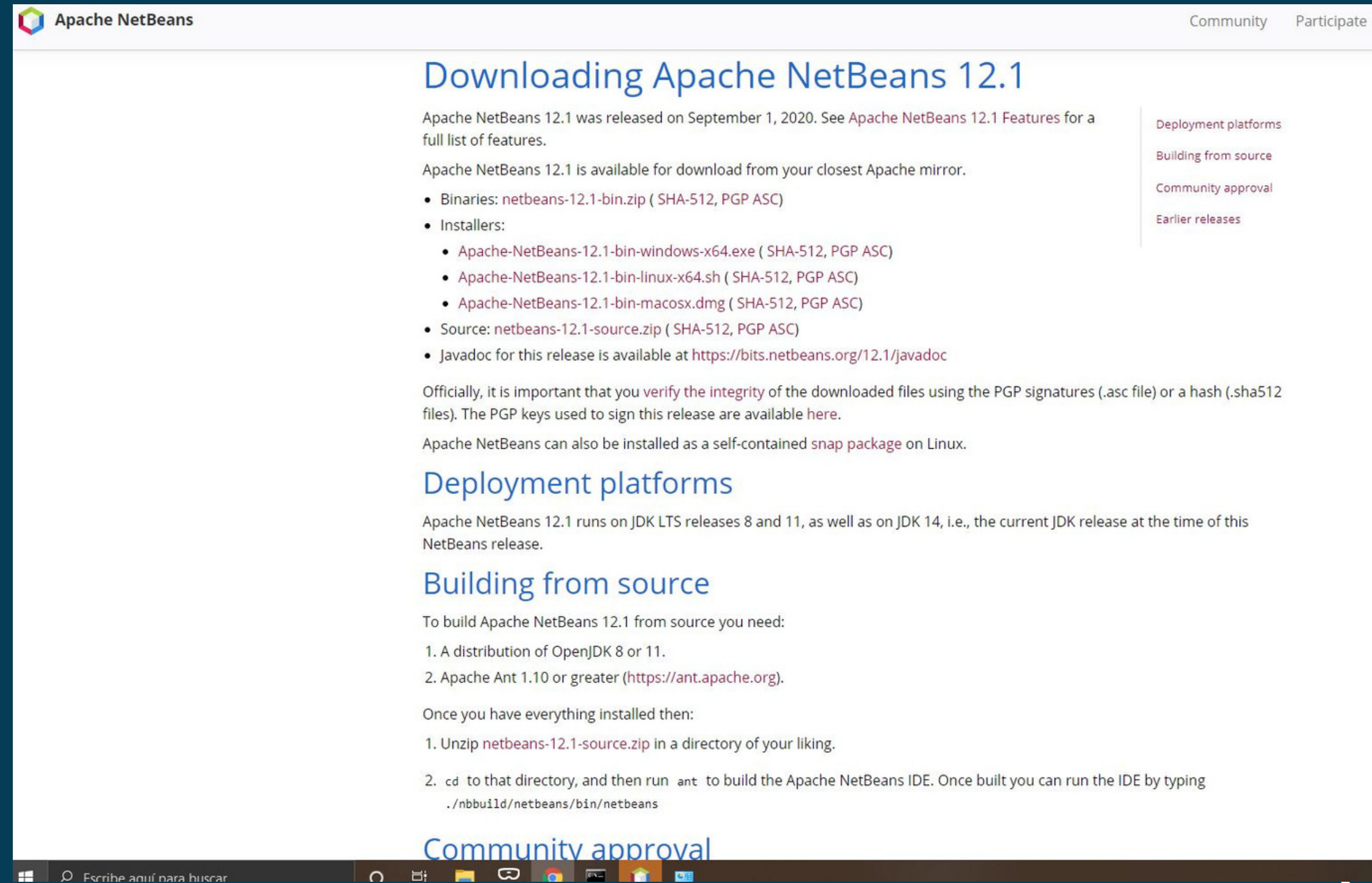
Older Apache NetBeans releases and pre-Apache NetBeans releases can still be downloaded, but are no longer supported.

[Find out more](#)

### Daily builds and building from source

# Descarga e instalacion

En la siguiente pagina elgimos que instalador queremos para nuestro sistema operativo, en mi caso windows y clicamos en el link del instalador .exe



The screenshot shows the Apache NetBeans 12.1 download page. The page has a dark blue header with the Apache NetBeans logo and navigation links for 'Community' and 'Participate'. The main content area is white and features a large blue heading 'Downloading Apache NetBeans 12.1'. Below this heading, there is a paragraph stating that Apache NetBeans 12.1 was released on September 1, 2020, and a link to the features page. A second paragraph mentions that the software is available for download from the closest Apache mirror. A bulleted list provides links to binaries, installers (for Windows, Linux, and macOS), source code, and Javadoc. A sidebar on the right contains links for 'Deployment platforms', 'Building from source', 'Community approval', and 'Earlier releases'. Further down, there is a section for 'Deployment platforms' stating compatibility with JDK LTS releases 8 and 11, and a section for 'Building from source' with instructions on how to build from source code. The page is viewed in a browser window with a Windows taskbar visible at the bottom.

Apache NetBeans

Community Participate

## Downloading Apache NetBeans 12.1

Apache NetBeans 12.1 was released on September 1, 2020. See [Apache NetBeans 12.1 Features](#) for a full list of features.

Apache NetBeans 12.1 is available for download from your closest Apache mirror.

- Binaries: [netbeans-12.1-bin.zip](#) ( SHA-512, PGP ASC)
- Installers:
  - [Apache-NetBeans-12.1-bin-windows-x64.exe](#) ( SHA-512, PGP ASC)
  - [Apache-NetBeans-12.1-bin-linux-x64.sh](#) ( SHA-512, PGP ASC)
  - [Apache-NetBeans-12.1-bin-macosx.dmg](#) ( SHA-512, PGP ASC)
- Source: [netbeans-12.1-source.zip](#) ( SHA-512, PGP ASC)
- Javadoc for this release is available at <https://bits.netbeans.org/12.1/javadoc>

Officially, it is important that you [verify the integrity](#) of the downloaded files using the PGP signatures (.asc file) or a hash (.sha512 files). The PGP keys used to sign this release are available [here](#).

Apache NetBeans can also be installed as a self-contained [snap package](#) on Linux.

### Deployment platforms

Apache NetBeans 12.1 runs on JDK LTS releases 8 and 11, as well as on JDK 14, i.e., the current JDK release at the time of this NetBeans release.

### Building from source

To build Apache NetBeans 12.1 from source you need:

- A distribution of OpenJDK 8 or 11.
- Apache Ant 1.10 or greater (<https://ant.apache.org>).

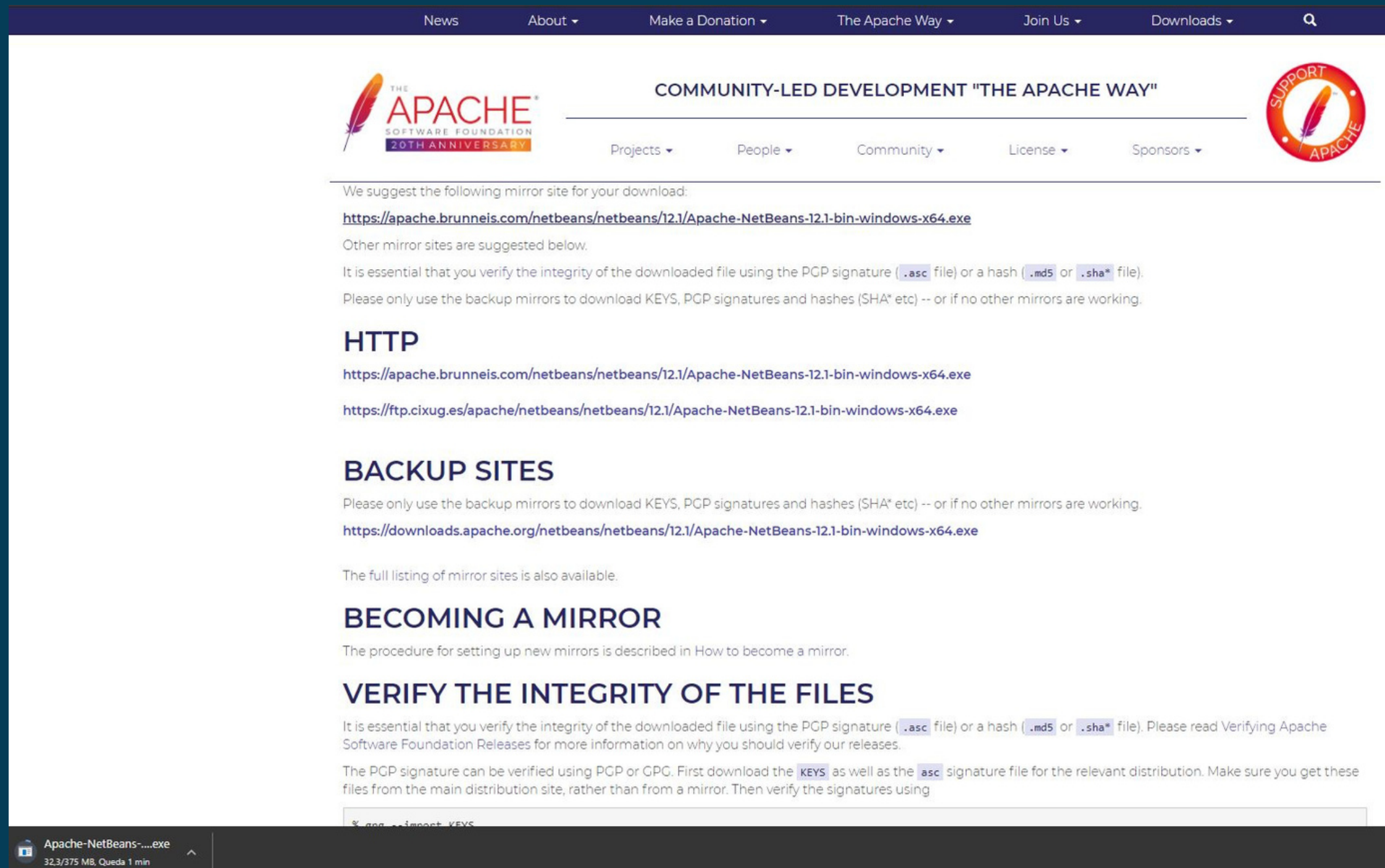
Once you have everything installed then:

- Unzip [netbeans-12.1-source.zip](#) in a directory of your liking.
- `cd` to that directory, and then run `ant` to build the Apache NetBeans IDE. Once built you can run the IDE by typing `./nbbuild/netbeans/bin/netbeans`

### Community approval

# Descarga e instalacion

Hacemos click en  
<https://apache.brunneis.com/netbeans/netbeans/12.1/Apache-NetBeans-12.1-bin-windows-x64.exe>  
Y descargamos el exe y lo ejecutamos para instalarlo



The screenshot shows the Apache NetBeans download page. The header includes navigation links: News, About, Make a Donation, The Apache Way, Join Us, Downloads, and a search icon. The main content area features the Apache Software Foundation 20th Anniversary logo and the text "COMMUNITY-LED DEVELOPMENT 'THE APACHE WAY'". Below this, there are links for Projects, People, Community, License, and Sponsors. The page suggests a mirror site for download: <https://apache.brunneis.com/netbeans/netbeans/12.1/Apache-NetBeans-12.1-bin-windows-x64.exe>. It also mentions other mirror sites and provides instructions on how to verify the integrity of the downloaded file using PGP signatures or hashes. The page is divided into sections: HTTP, BACKUP SITES, BECOMING A MIRROR, and VERIFY THE INTEGRITY OF THE FILES. At the bottom, there is a taskbar showing the file "Apache-NetBeans-....exe" with a size of 32.3/375 MB and a download time of 1 min.

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THE APACHE SOFTWARE FOUNDATION 20TH ANNIVERSARY

COMMUNITY-LED DEVELOPMENT "THE APACHE WAY"

Projects People Community License Sponsors

We suggest the following mirror site for your download:  
<https://apache.brunneis.com/netbeans/netbeans/12.1/Apache-NetBeans-12.1-bin-windows-x64.exe>

Other mirror sites are suggested below.

It is essential that you verify the integrity of the downloaded file using the PGP signature (.asc file) or a hash (.md5 or .sha\* file).  
Please only use the backup mirrors to download KEYS, PGP signatures and hashes (SHA\* etc) -- or if no other mirrors are working.

## HTTP

<https://apache.brunneis.com/netbeans/netbeans/12.1/Apache-NetBeans-12.1-bin-windows-x64.exe>

<https://ftp.cixug.es/apache/netbeans/netbeans/12.1/Apache-NetBeans-12.1-bin-windows-x64.exe>

## BACKUP SITES

Please only use the backup mirrors to download KEYS, PGP signatures and hashes (SHA\* etc) -- or if no other mirrors are working.

<https://downloads.apache.org/netbeans/netbeans/12.1/Apache-NetBeans-12.1-bin-windows-x64.exe>

The full listing of mirror sites is also available.

## BECOMING A MIRROR

The procedure for setting up new mirrors is described in How to become a mirror.

## VERIFY THE INTEGRITY OF THE FILES

It is essential that you verify the integrity of the downloaded file using the PGP signature (.asc file) or a hash (.md5 or .sha\* file). Please read Verifying Apache Software Foundation Releases for more information on why you should verify our releases.

The PGP signature can be verified using PGP or GPG. First download the KEYS as well as the .asc signature file for the relevant distribution. Make sure you get these files from the main distribution site, rather than from a mirror. Then verify the signatures using

```
% gpg --import KEYS
```

Apache-NetBeans-....exe  
32.3/375 MB. Queda 1 min

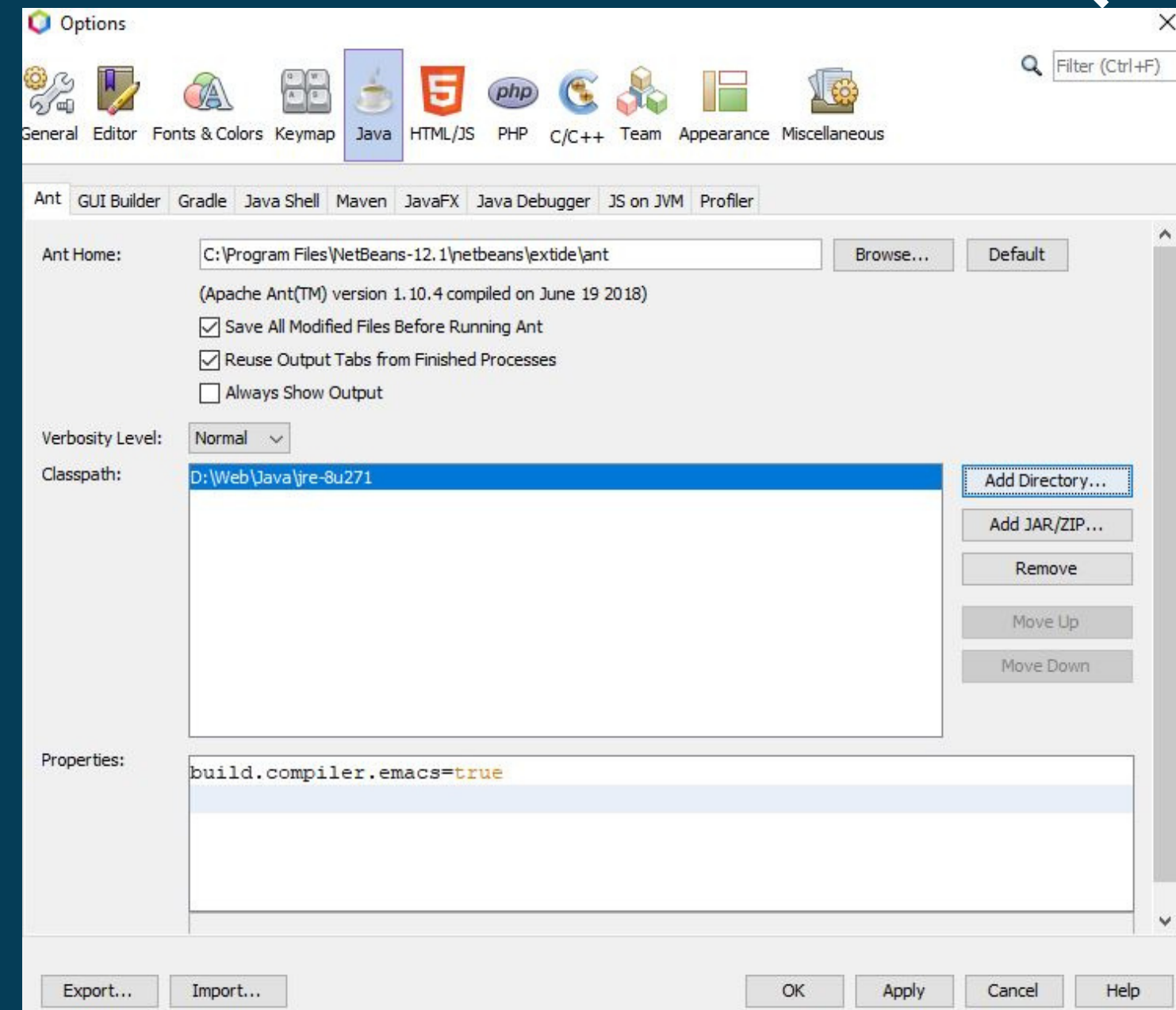


# Descarga e instalacion

Para finalizar ejecutamos el programa ya instalado y nos dirigimos a:

Tools>Options>Java

y en el apartado ClassPath añadimos el directorio de nuestra instalacion del jre y clickaremos en el boton de apply



# Ejecutar Hola Mundo en NetBeans

```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package ejelholamundo;
7
8  /**
9   *
10   * @author Rodri
11   */
12  public class Eje1HolaMundo {
13
14      /**
15       * @param args the command line arguments
16       */
17      public static void main(String[] args) {
18          System.out.println("Hola Mundo");
19      }
20
21  }
22
```

Output - Eje1HolaMundo (run) X

```
ant -f C:\\Users\\Rodri\\OneDrive\\Documentos\\NetBeansProjects\\Eje1HolaMundo -Dnb.internal.action.name=run run
init:
Deleting: C:\\Users\\Rodri\\OneDrive\\Documentos\\NetBeansProjects\\Eje1HolaMundo\\build\\built-jar.properties
deps-jar:
Updating property file: C:\\Users\\Rodri\\OneDrive\\Documentos\\NetBeansProjects\\Eje1HolaMundo\\build\\built-jar.properties
compile:
run:
Hola Mundo
BUILD SUCCESSFUL (total time: 0 seconds)
```