


Exercici 2.1: Descarregar i instal·lar la versió 21 del JDK.

Java downloadsTools and resourcesJava archive

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JDK 21 is the latest long-term support release of Java SE Platform.

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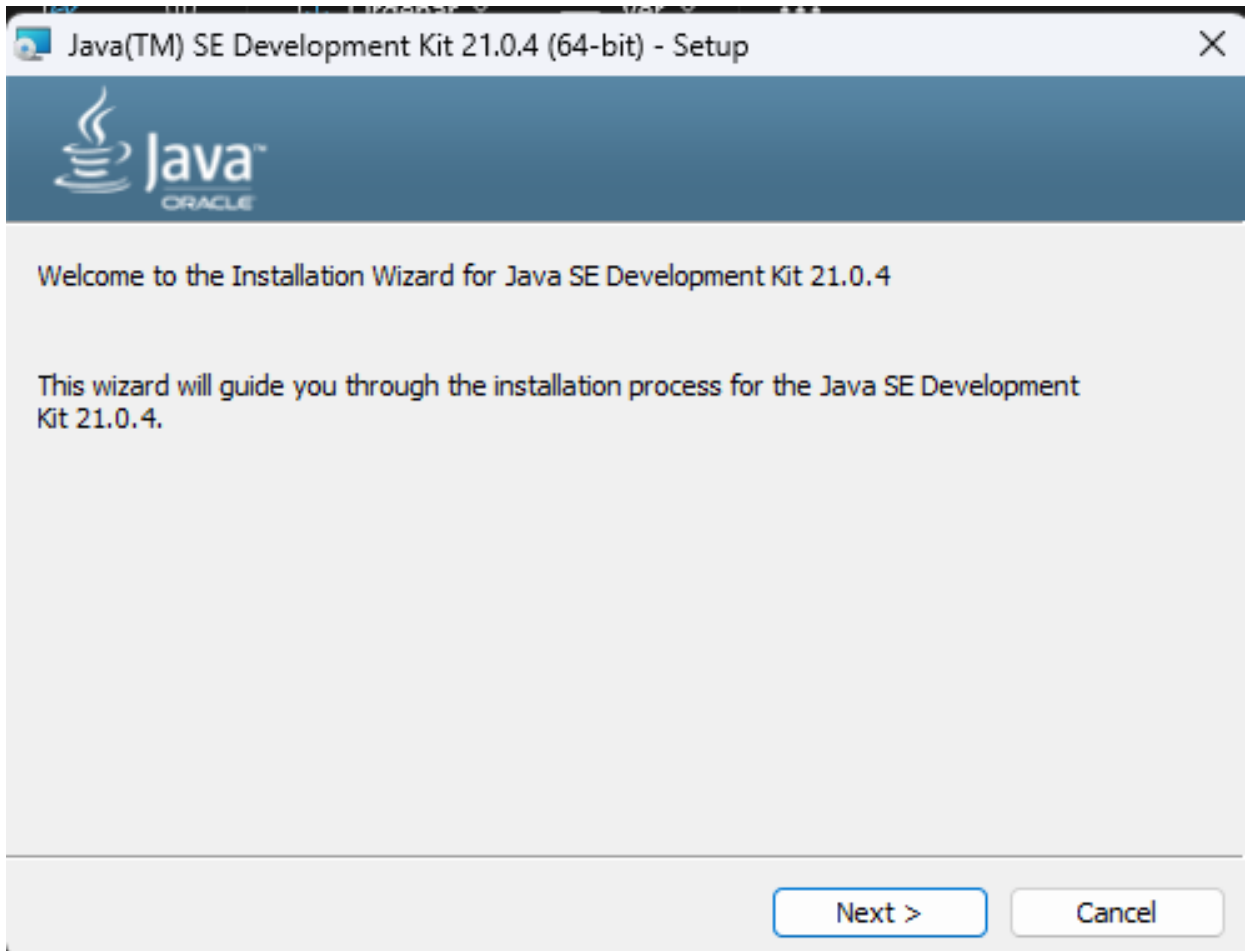
JDK 23JDK 21JDK 17GraalVM for JDK 23GraalVM for JDK 21GraalVM for JDK 17

JDK Development Kit 23 downloads

JDK 23 binaries are free to use in production and free to redistribute, at no cost, under the [Oracle No-Fee Terms and Conditions](#) (NFTC).
JDK 23 will receive updates under these terms, until March 2025, when it will be superseded by JDK 24.

LinuxmacOSWindows

Product/file description	File size	Download
ARM64 Compressed Archive	228.80 MB	https://download.oracle.com/java/23/latest/jdk-23_linux-aarch64_bin.tar.gz (sha256)
ARM64 RPM Package	228.42 MB	https://download.oracle.com/java/23/latest/jdk-23_linux-aarch64_bin.rpm (sha256) (OL 8 GPG Key)
x64 Compressed Archive	231.51 MB	https://download.oracle.com/java/23/latest/jdk-23_linux-x64_bin.tar.gz (sha256)
x64 Debian Package	190.56 MB	https://download.oracle.com/java/23/latest/jdk-23_linux-x64_bin.deb (sha256)



Exercici 2.2: Descarregar i instal·lar Eclipse



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The Eclipse Temurin™ project provides high-quality, TCK certified OpenJDK runtimes and associated technology for use across the Java™ ecosystem.

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Eclipse IDE for Java Developers

The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Maven and Gradle integration



Eclipse IDE for Enterprise Java and Web Developers

Tools for developers working with Java and Web applications, including a Java IDE, tools for JavaScript, TypeScript, JavaServer Pages and Faces, Yaml, Markdown, Web...



Eclipse IDE for C/C++ Developers

An IDE for C/C++ developers.



Eclipse IDE for Embedded C/C++ Developers

An IDE for Embedded C/C++ developers. It includes managed cross build plug-ins (Arm and RISC-V) and debug plug-ins (SEGGER J-Link, OpenOCD, pyocd, and QEMU),...

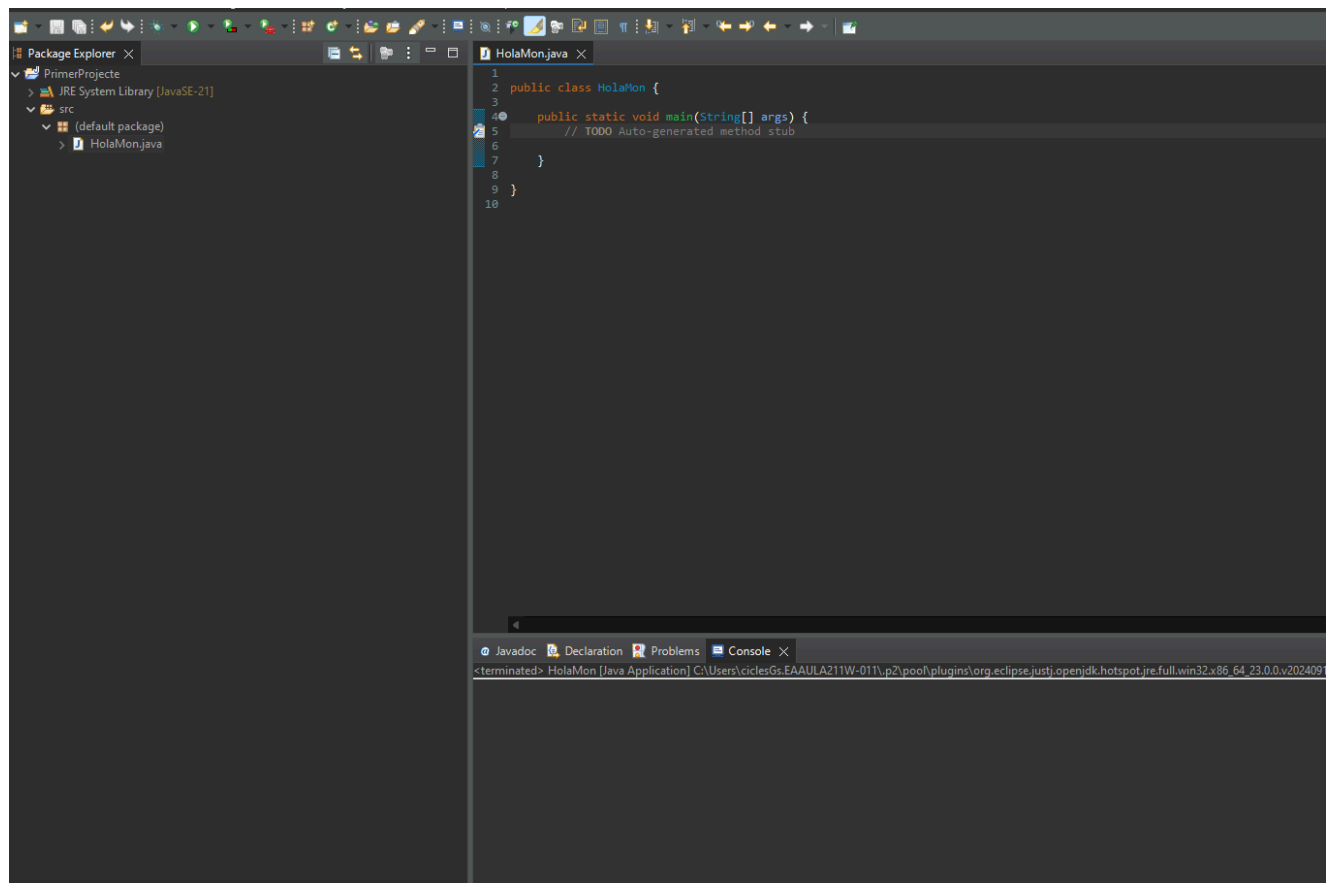


Eclipse IDE for PHP Developers

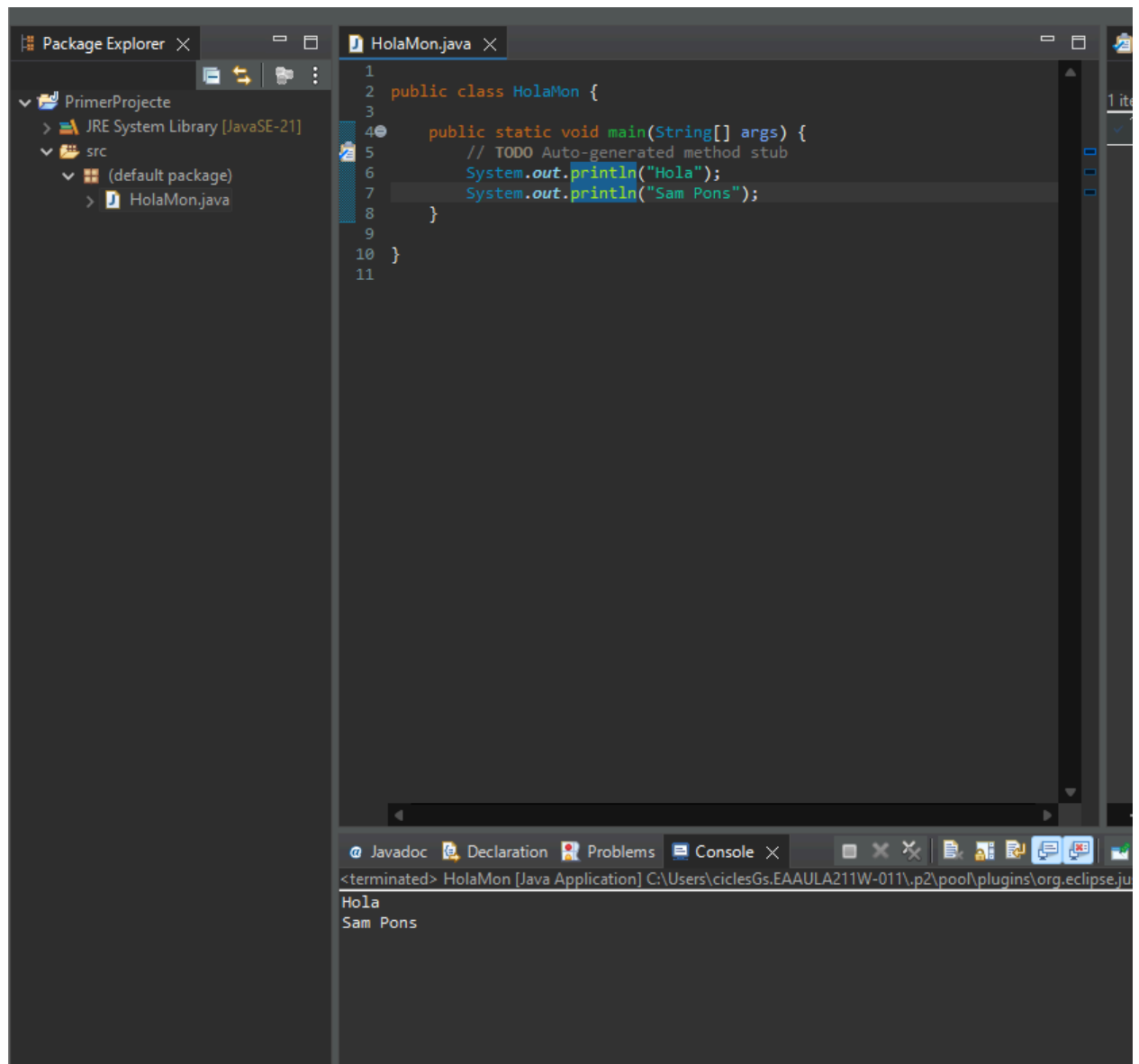
The essential tools for any PHP developer, including PHP language support, Git client and editors for JavaScript, TypeScript, HTML, CSS and XML.

[Click here to raise an issue with](#)

Exercici 2.3: Escriviu i executeu el programa HolaMon en el vostre entorn de desenvolupament.

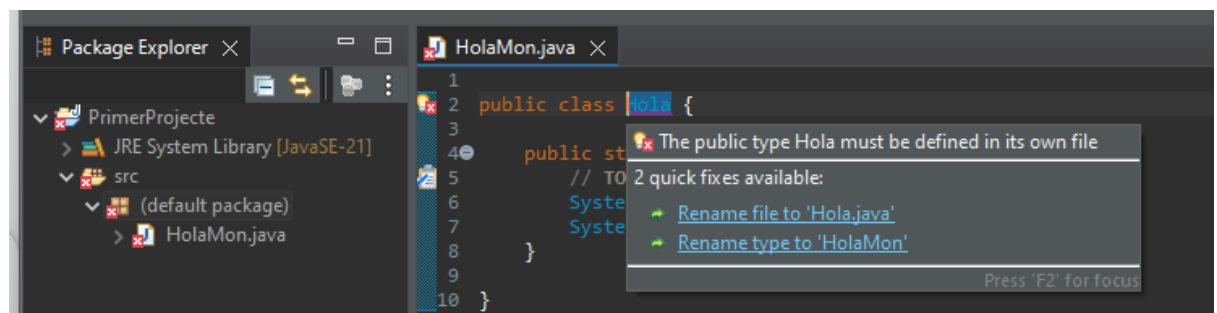
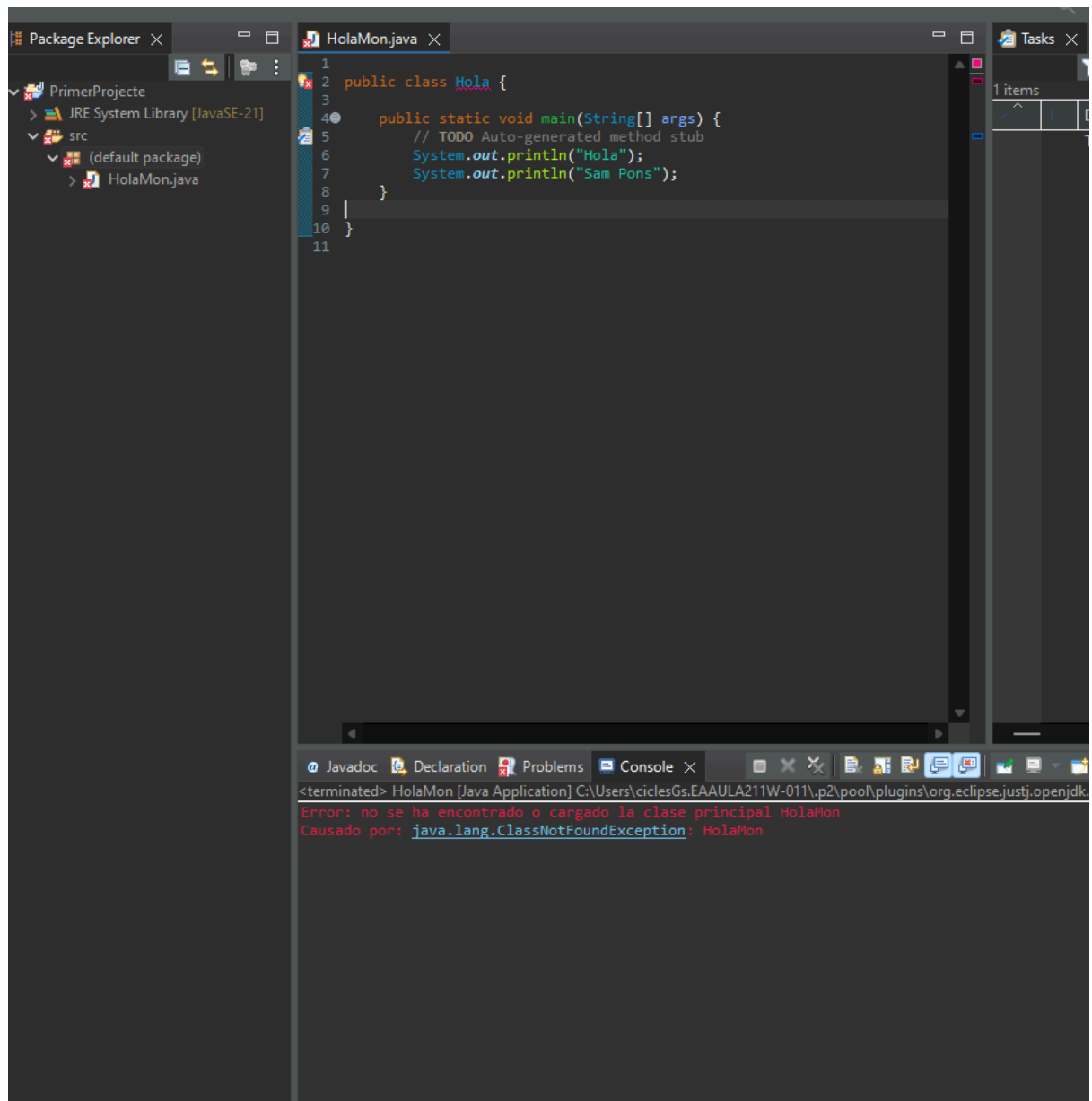


Exercici 2.4: Modificau el programa anterior perquè escrigui la paraula “Hola” i el vostre nom en dues línies separades.



Exercici 2.5: Canviau el nom de la classe que teniu definida al vostre programa. Que ha passat? Hi ha qualche error de compilació? Quina és la solució proposada?

Hi ha un error de compilació perquè el programa no troba la classe, la solució seria tornar a posar el nom original de la classe



Exercici 2.6: Crear una nova classe dins el vostre projecte i donau-li un nom de paquet diferent que no sigui el default package. Cerca la classe dins l'estructura del Package explorer, on s'ha emmagatzemat?. S'ha afegit qualche línia al programa?

New Java Class

Java Class
Create a new Java class.

Source folder:

Package:

☐ Enclosing type:

Name:

Modifiers: ☒ public ☐ package ☐ private ☐ protected
☐ abstract ☐ final ☐ static
☒ none ☐ sealed ☐ non-sealed ☐ final

Superclass:

Interfaces:

Which method stubs would you like to create?

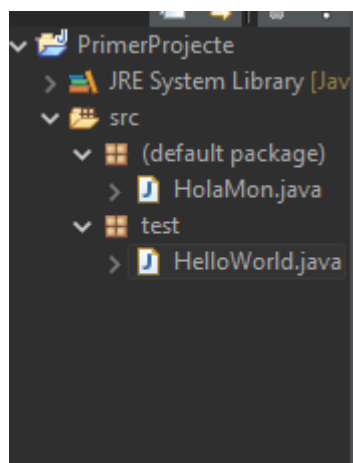
☐ public static void main(String[] args)

☐ Constructors from superclass

☒ Inherited abstract methods

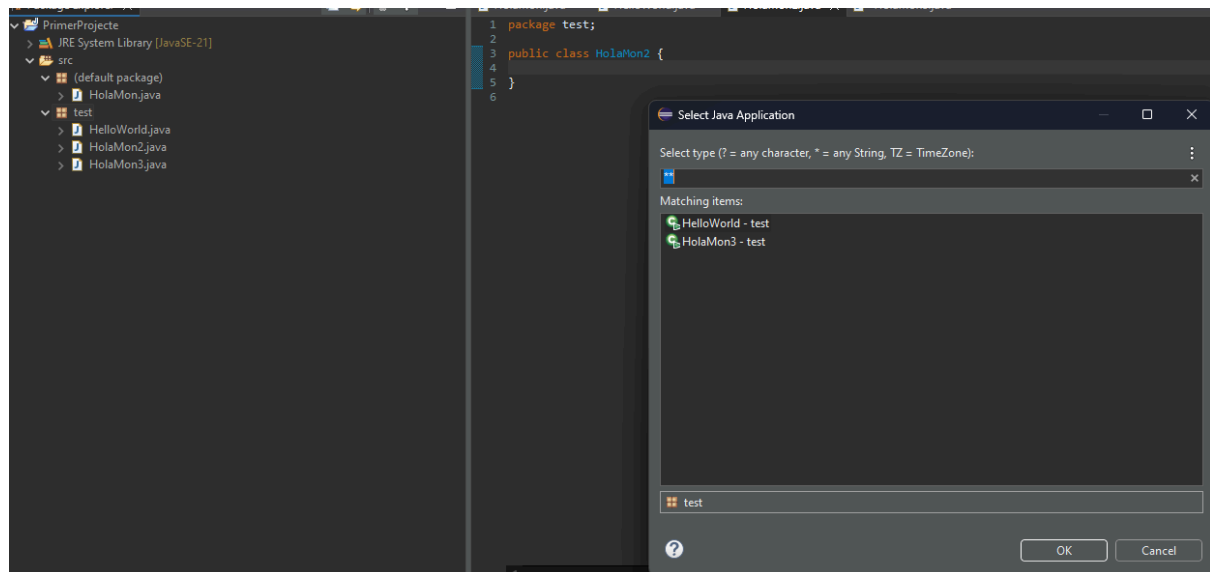
Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

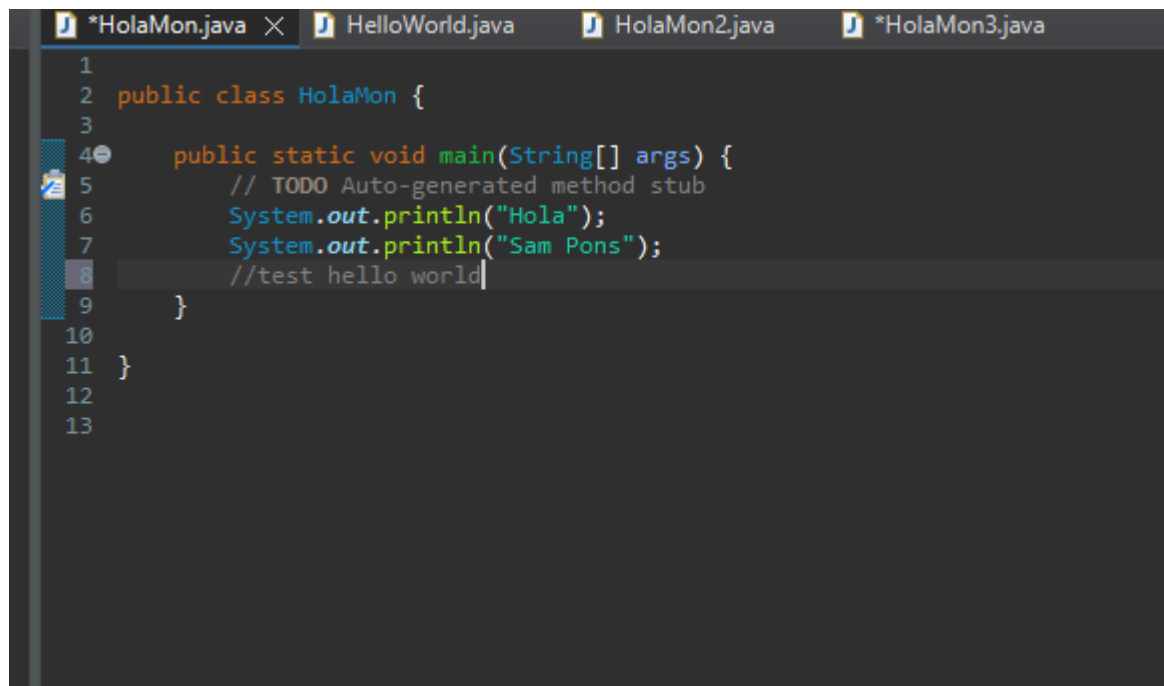


```
1 package test;
```

Exercici 2.7: Creau més classes que s'emmagatzemin dins el nou Package que heu creat i crear-ne qualcuna amb l'opció públic static void main. Com podeu seleccionar quina s'executa?

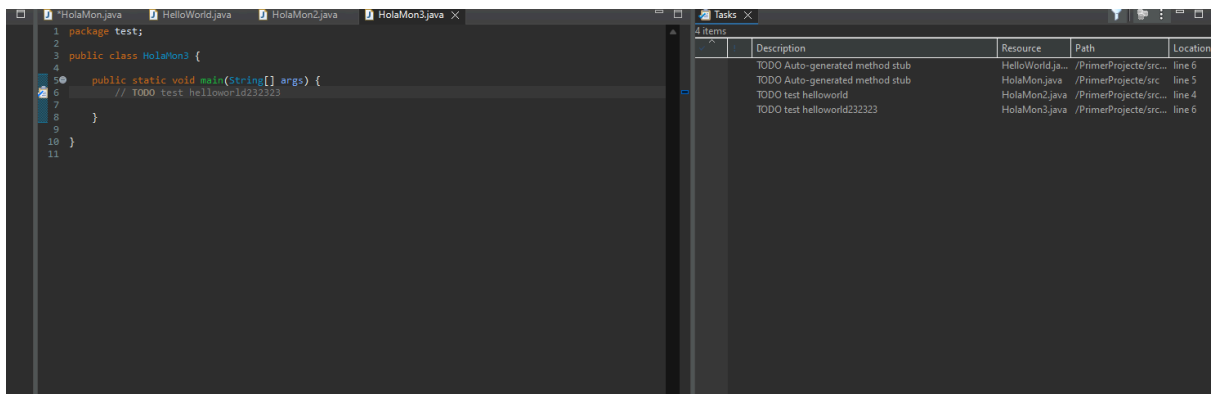


Exercici 2.8: Introduïu comentaris explicatius dins el vostre programa utilitzant el sistema de comentaris d'una sola línia (//) i de més d'una línia (/* */)



```
1
2 public class HolaMon {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         System.out.println("Hola");
7         System.out.println("Sam Pons");
8         /*dsdsdsdsdsj
9         * d
10        * d
11        * d
12        *
13        * d
14        *
15        * d|
16        */
17     }
18
19 }
20
21
```

Exercici 2.9: Utilitzau la paraula clau 'TODO' per a afegir tasques pendent i comproveu que apareixen a la finestra de tasques (Windows / Show View / Tasks)



Exercici 2.10: Investigau com s'escriu el mateix programa HolaMón en diferents llenguatges de programació a la pàgina <http://helloworldcollection.de/> . Hi veis similituds amb el programa en Java? Comprovau si en aquestes versions hi ha els apartats següents:

- Importació d'extensions (biblioteques).

Java (Mobile)

```
// Hello world on a mobile Java device

package helloworld;

import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
```

- Indicador d'inici del codi font.

LOTOS

```
(* Hello world in LOTOS (Language of Temporal Ordering Specifications) *)  
  
process HelloWorld [v]: exit :=  
  v! "Hello world!";  
  exit  
endproc
```

- Comentaris al codi.

MACRO-10

```
TITLE HELLO WORLD  
; HELLO WORLD IN MACRO 10 FOR TOPS-10  
ENTRY OUTPUT  
SEARCH UUOSYM  
  
LAB:    ASCIZ /HELLO WORLD  
/  
OUTPUT: OUTSTR LAB          ; OUTPUT MESSAGE  
        MONRT.              ; RETURN TO MONITOR  
        END OUTPUT
```

- Indicador de la primera instrucció per executar.

IBM-Exec

```
Hello world for IBM EXEC (under VM/CMS)  
  
&CONTROL  
*  
&TYPE Hello world!  
*  
&EXIT 0
```

- Blocs de codi o d'instruccions.

Intercal

Hello world in Intercal

```
DO ,1 <- #13
PLEASE DO ,1 SUB #1 <- #234
DO ,1 SUB #2 <- #112
DO ,1 SUB #3 <- #112
DO ,1 SUB #4 <- #0
DO ,1 SUB #5 <- #64
DO ,1 SUB #6 <- #194
DO ,1 SUB #7 <- #48
PLEASE DO ,1 SUB #8 <- #22
DO ,1 SUB #9 <- #248
DO ,1 SUB #10 <- #168
DO ,1 SUB #11 <- #24
DO ,1 SUB #12 <- #16
DO ,1 SUB #13 <- #214
PLEASE READ OUT ,1
PLEASE GIVE UP
```

Exercici 2.11: Accediu a la pàgina web de documentació d'eclipse i familiaritzau-vos amb el seu contingut per si heu de solucionar qualche problema que us sorgeixi amb l'entorn de desenvolupament.

The screenshot shows the Eclipse documentation website. The browser address bar displays <https://help.eclipse.org/latest/index.jsp>. The page header includes the Eclipse logo and the text "Eclipse documentation - Current Release". Below the header is a search bar with the placeholder text "Search:" and a "Go" button. To the right of the search bar, it says "Scope: All topics".

The main content area is divided into two sections. On the left is a "Contents" sidebar with a list of topics, each preceded by a small icon. The topics include:

- Eclipse Platform User Guide
- Java development user guide
- Platform Plug-in Developer Guide
- JDT Plug-in Developer Guide
- Plug-in Development Environment G
- Acceleo Documentation
- ATL Guide
- Autotools Plug-in User Guide
- C/C++ Development User Guide
- Callgraph User Guide
- CDO Model Repository Documenta
- CDT Plug-in Developer Guide
- ChangeLog Editor User Guide
- Dali Java Persistence Tools User Gui
- Data Tools Platform Plug-in Develo
- Data Tools Platform User Document
- Docker Tooling User Guide
- ECF Remote Services Developer Gui
- EclEmma Java Code Coverage
- Eclipse Marketplace User Guide
- Eclipse Scout User Guide
- EcoreTools User Manual
- EEF
- EGit Documentation
- EGit GitHub Documentation
- EMF Compare Documentation
- EMF Developer Guide
- GCov User Guide
- GDB Tracepoint Analysis User Guide
- GEF Cloudio Developer Documentati
- GEF Cloudio User Guide
- GEF Common Developer Documenta
- GEF DOT Developer Documentation
- GEF DOT User Guide

The right section is titled "Using the help system" and contains the following text:

Browse topics in the Contents frame () on the left. Click on a topic to have it displayed. Use the Back and Forward buttons to navigate within the history of viewed topics.

Searching

To quickly locate topics on a particular subject in the documentation, enter a query in the Search field. Use the Search frame () to display the Search view. You can narrow the scope of your search by selecting only the sections you are interested in.

Synchronizing

Clicking the Show in Table of Contents button () will select that topic in the navigation tree. The Link with Contents button () keeps the navigation tree synchronized to the current topic.

Capabilities

To show documentation about capabilities that are disabled in the application, select the Show All Topics button (). This affects the table of contents and search results.

Keyword Index

To show an alphabetically sorted index of keywords select the Index Frame (). Not all products contain an index.

Exercici 2.12: Accediu a la pàgina web de la plataforma de Java SE versió 8 (<https://docs.oracle.com/javase/8/>) i comprovau la quantitat d'informació disponible que us ofereix aquesta pàgina.

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Reference

- [Java SE API Documentation](#)
- [JavaFX API Documentation](#)
- [Developer Guides](#)
- [Java Language and Virtual Machine Specifications](#)
- [Java SE Tools Reference for UNIX](#)
- [Java SE Tools Reference for Windows](#)

- [Java Mission Control](#)
- [Java Flight Recorder](#)
- [Troubleshooting Guide](#)

- ## Release Notes

- Java SE Release Notes

- ## Deploy
- Deployment Guide

[illegible]

Serveix per fer operacions basiques matematicques.