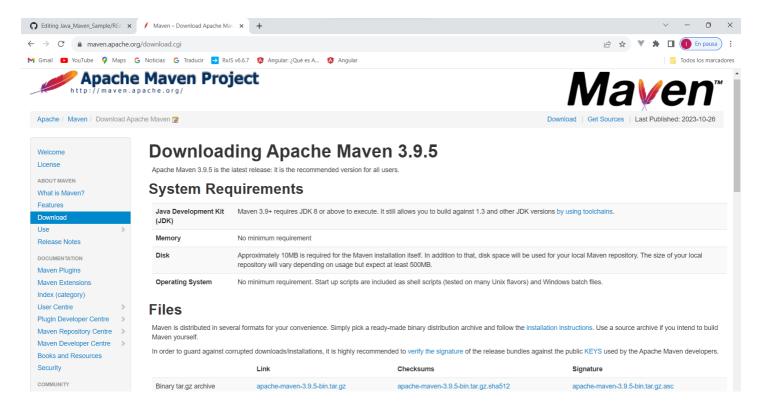
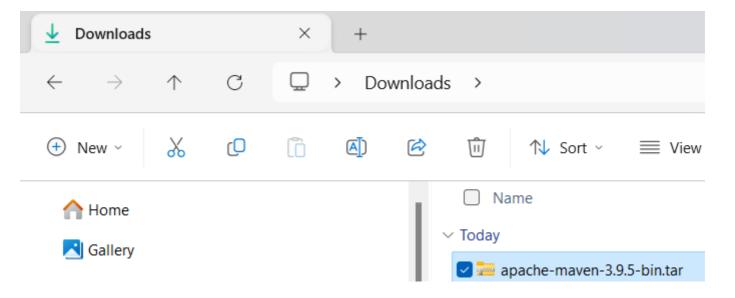
Java Maven Sample

1. Download and install Apache Maven

Download Apache Maven from the web page: https://maven.apache.org/download.cgi



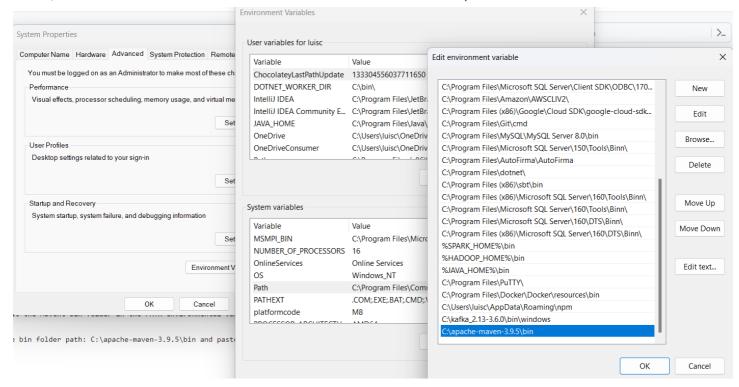
Unzig the apache-maven-3.9.5-bin.tar file and place the folder in the C: root hard disk



2. Set the Mavent bin folder in the PATH environmental variable

Copy the bin folder path: C:\apache-maven-3.9.5\bin and paste in the PATH environmental variable

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3. Verify Maven installation

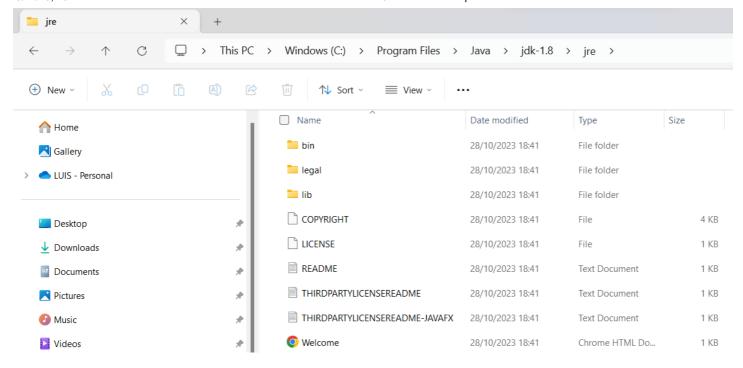
Run this command to verify the Maven installation

mvn -v

```
C:\Users\luisc>mvn -v
Apache Maven 3.9.5 (57804ffe001d7215b5e7bcb531cf83df38f93546)
Maven home: C:\apache-maven-3.9.5
Java version: 1.8.0_391, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-1.8\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"
```

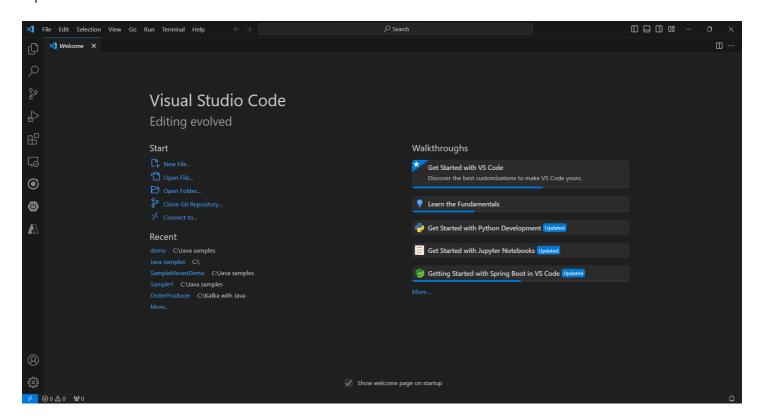
IMPORTANT NOTE: We already installed before "C:\Program Files\Java\jdk-1.8\jre"

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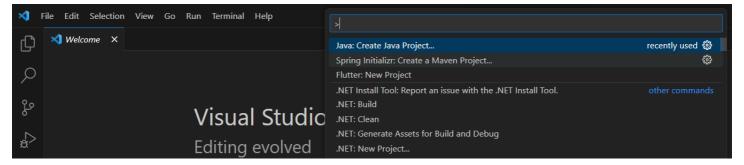
4. Create the Java application in VSCode

Open VSCode

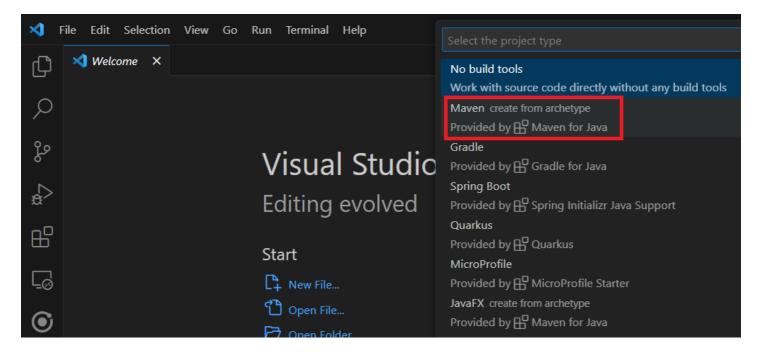


Press the keys Ctrl+Shift+P for creating a new Java application

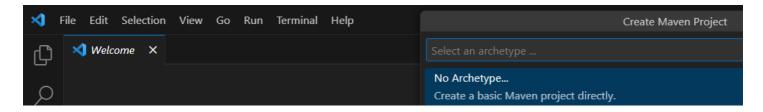
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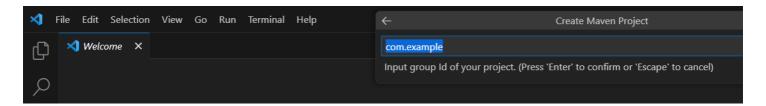
We select Maven project type



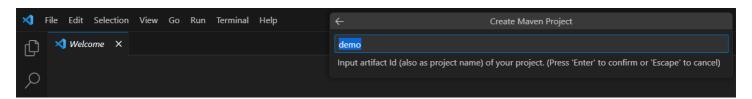
We select No Archetype



We set the package name com.example

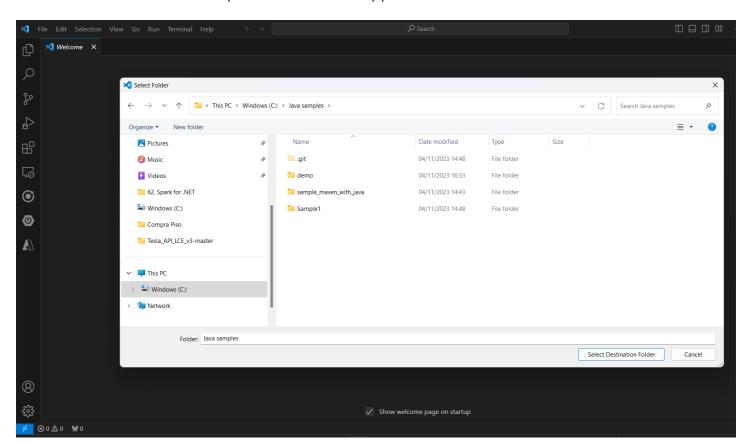


We set the application name

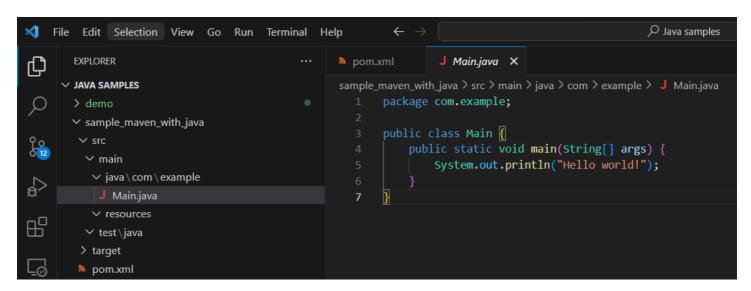


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We select the folder where to place the new Java application



We open the new Java application



The original pom.xml file not include the tag. We will add this tag in the following sections below

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5. Java application source code

```
package com.example;

public class Main {
    public static void main(String[] args) {
        System.out.println("Hello world!");
    }
}
```

6. Java application pom.xml file

```
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/mav
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.example
   <artifactId>sample_maven_with_java</artifactId>
   <version>1.0-SNAPSHOT</version>
   cproperties>
       <maven.compiler.source>1.8</maven.compiler.source>
       <maven.compiler.target>1.8</maven.compiler.target>
   </properties>
   <build>
       <plugins>
           <plugin>
               <!-- Maven JAR Plugin Configuration -->
               <groupId>org.apache.maven.plugins
               <artifactId>maven-jar-plugin</artifactId>
               <version>3.1.0
               <configuration>
                   <archive>
                       <manifest>
                           <mainClass>com.example.Main</mainClass>
                       </manifest>
                   </archive>
               </configuration>
```

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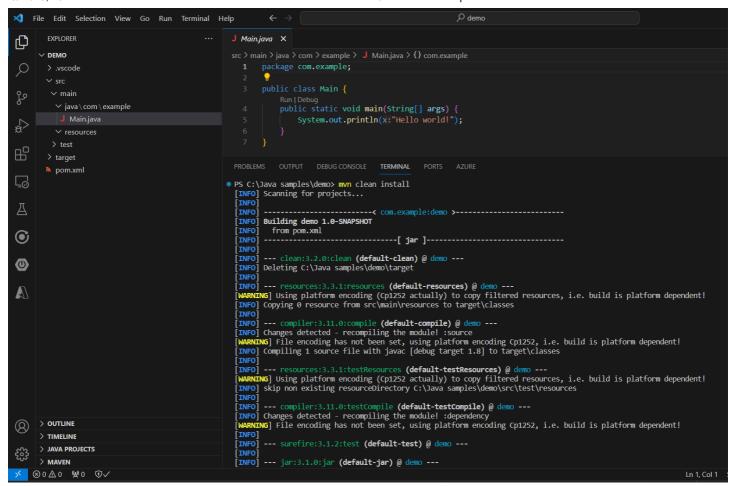
```
</plugin>
            <plugin>
                <!-- Exec Maven Plugin Configuration -->
                <groupId>org.codehaus.mojo</groupId>
                <artifactId>exec-maven-plugin</artifactId>
                <version>3.1.0
                <configuration>
                    <mainClass>com.example.Main/mainClass>
                </configuration>
                <executions>
                    <execution>
                        <goals>
                            <goal>java</goal>
                        </goals>
                    </execution>
                </executions>
            </plugin>
        </plugins>
    </build>
</project>
```

7. Compile and Run the Java with Maven application

To compile the application run the command:

mvn clean install

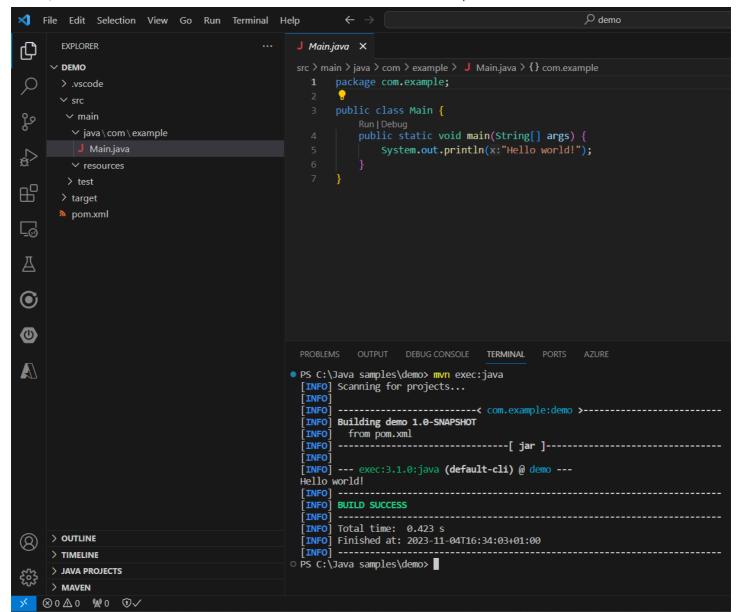
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To run the application execute the command:

```
mvn exec:java
```

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