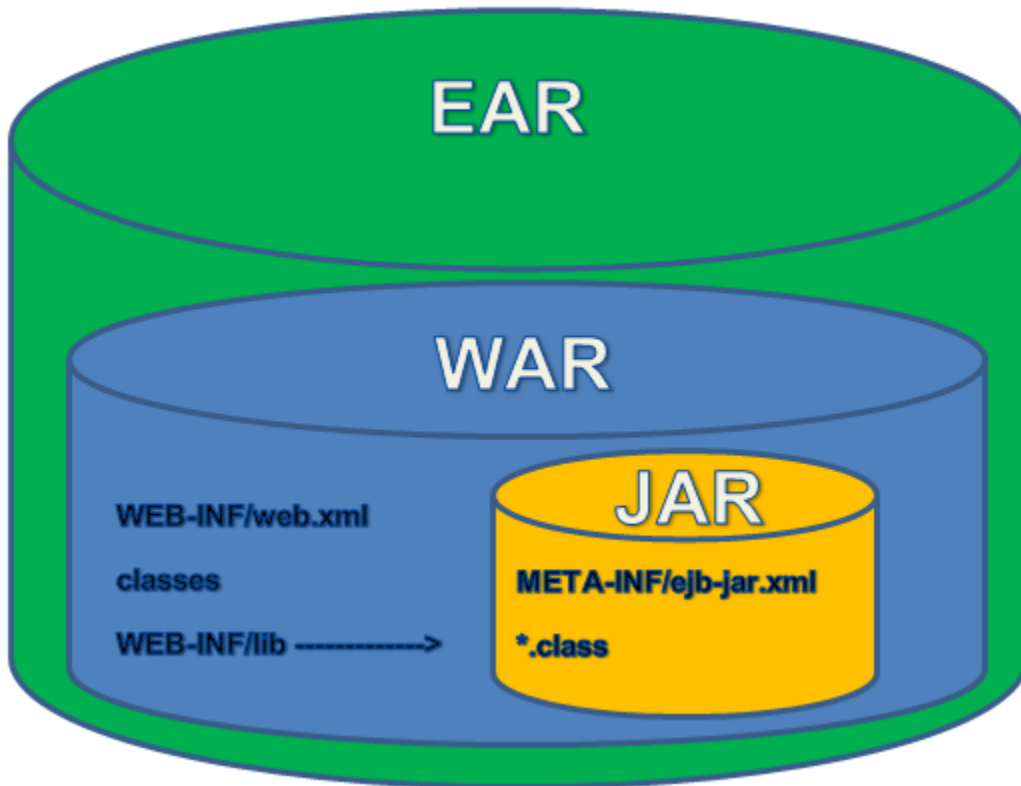


How to Install Java on Windows

.WAR stands for **Web application ARchive**

.JAR stands for **Java Archive - (Remember the Jenkins build)**



The Java Development Kit (JDK) is software used for Java programming, along with the Java Virtual Machine (JVM) and the Java Runtime Environment (JRE). The JDK includes the compiler and class libraries, allowing developers to create Java programs executable by the JVM and JRE.

Check if Java Is Installed

Before installing the Java Development Kit, [check if a Java version is already installed on Windows](#). Follow the steps below:

1. Open a command prompt by typing `cmd` in the search bar and press **Enter**.

2. Run the following command:

```
# java -version
```

```
C:\Users\boskom>java -version
'java' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\boskom>
```

The command outputs the Java version on your system. If Java isn't installed, the output is a message stating that Java isn't recognized as an internal or external command.

Download Java for Windows 10

Download the latest Java Development Kit installation file for Windows 10 to have the latest features and bug fixes.

1. Using your preferred web browser, navigate to the [Oracle Java Downloads page](#).
2. On the *Downloads* page, click the **x64 Installer** download link under the **Windows** category. At the time of writing this article, Java version 17 is the latest long-term support Java version

| Linux | macOS | Windows |
|--------------------------|-----------|---|
| Product/file description | | |
| File size | | |
| Download | | |
| x64 Compressed Archive | 170.66 MB | https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.zip (sha256 🔗) |
| x64 Installer | 152 MB | https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.exe (sha256 🔗) |
| x64 MSI Installer | 150.89 MB | https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.msi (sha256 🔗) |

Wait for the download to complete.

Install Java on Windows 10

After downloading the installation file, proceed with installing Java on your Windows system.

Follow the steps below:

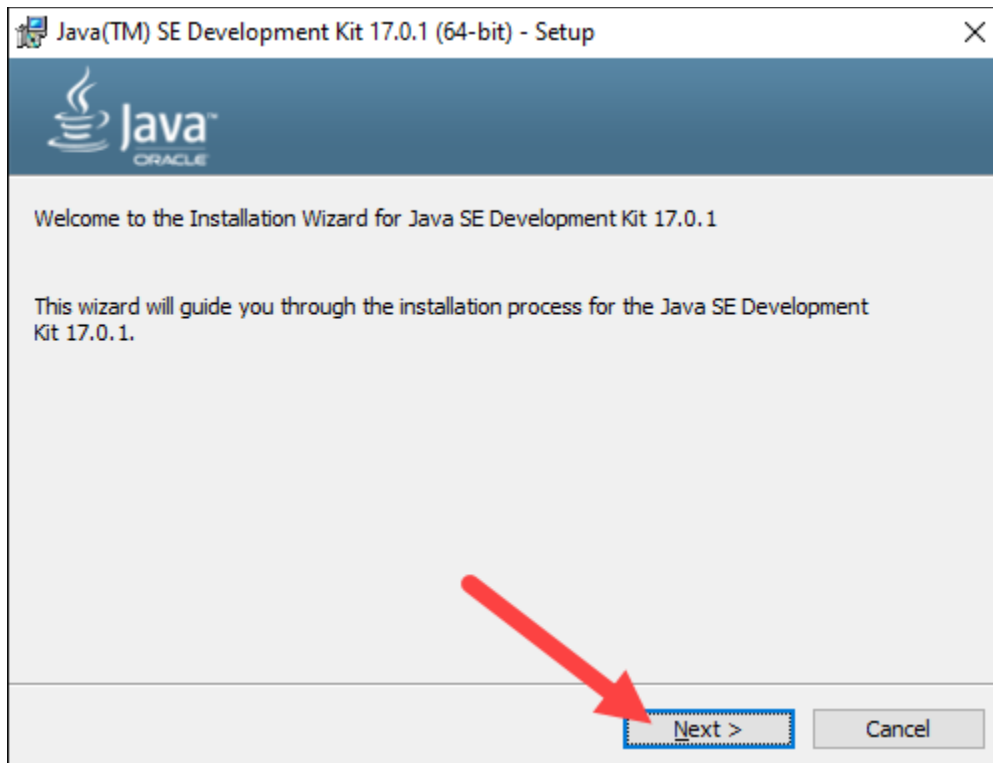
Step 1: Run the Downloaded File

Double-click the **downloaded file** to start the installation.

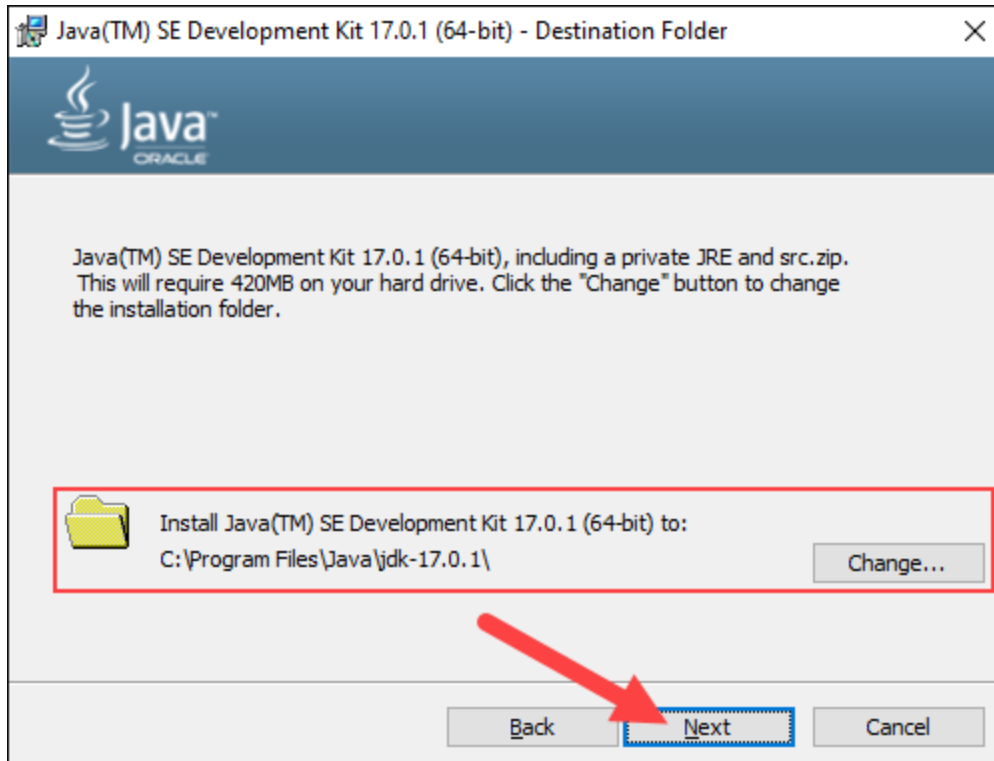
Step 2: Configure the Installation Wizard

After running the installation file, the installation wizard welcome screen appears.

1. Click **Next** to proceed to the next step.



2. Choose the destination folder for the Java installation files or stick to the default path. Click **Next** to proceed.



3. Wait for the wizard to finish the installation process until the Successfully Installed message appears. Click Close to exit the wizard.

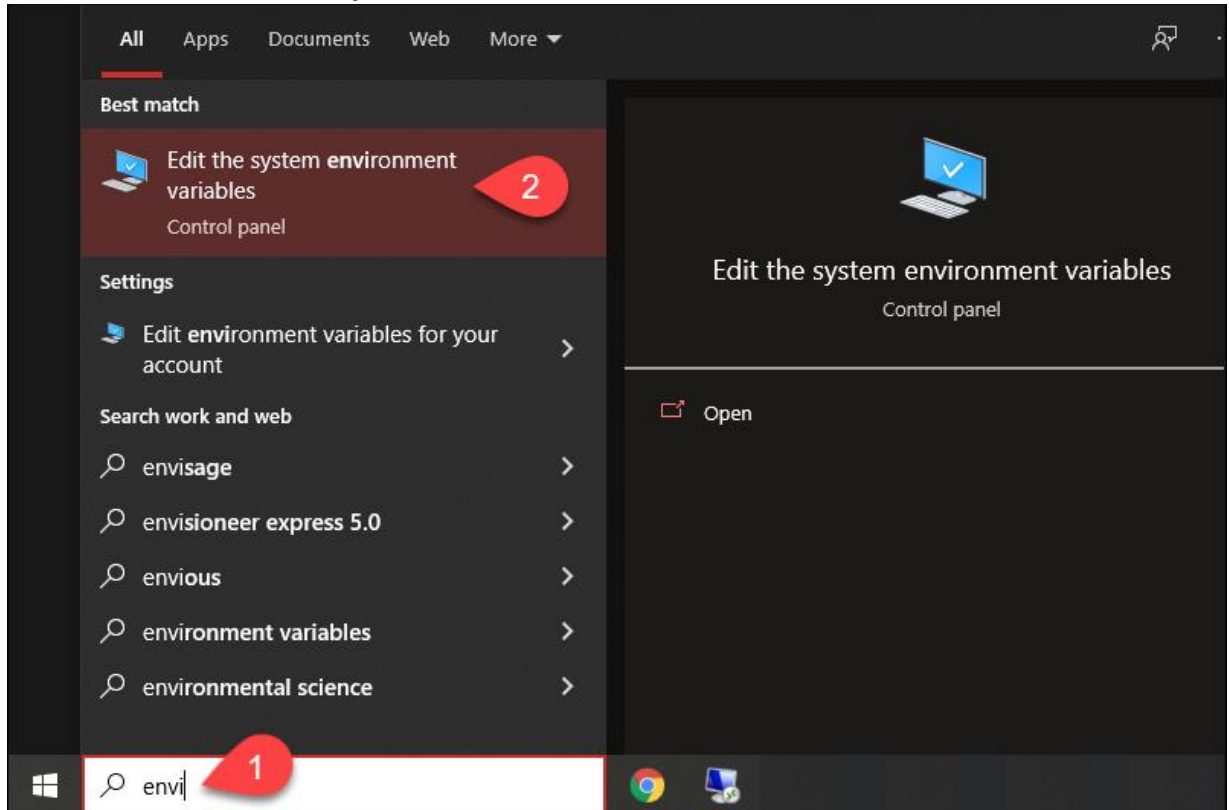


Set Environmental Variables in Java

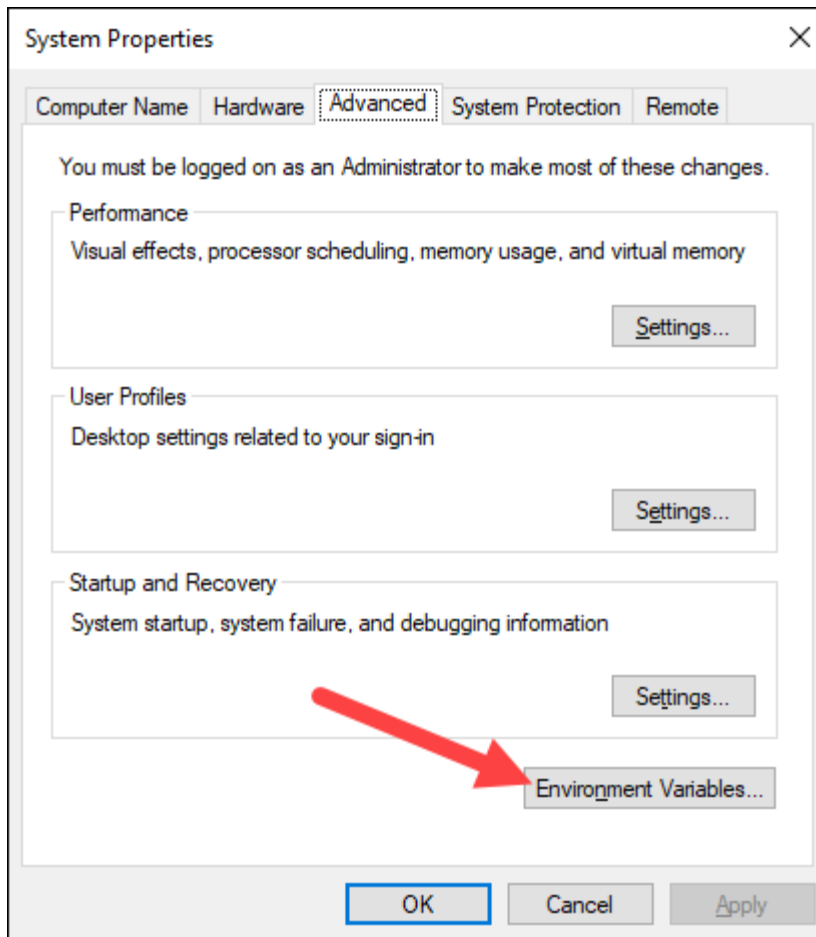
Set Java [environment variables](#) to enable program compiling from any directory. To do so, follow the steps below:

Step 1: Add Java to System Variables

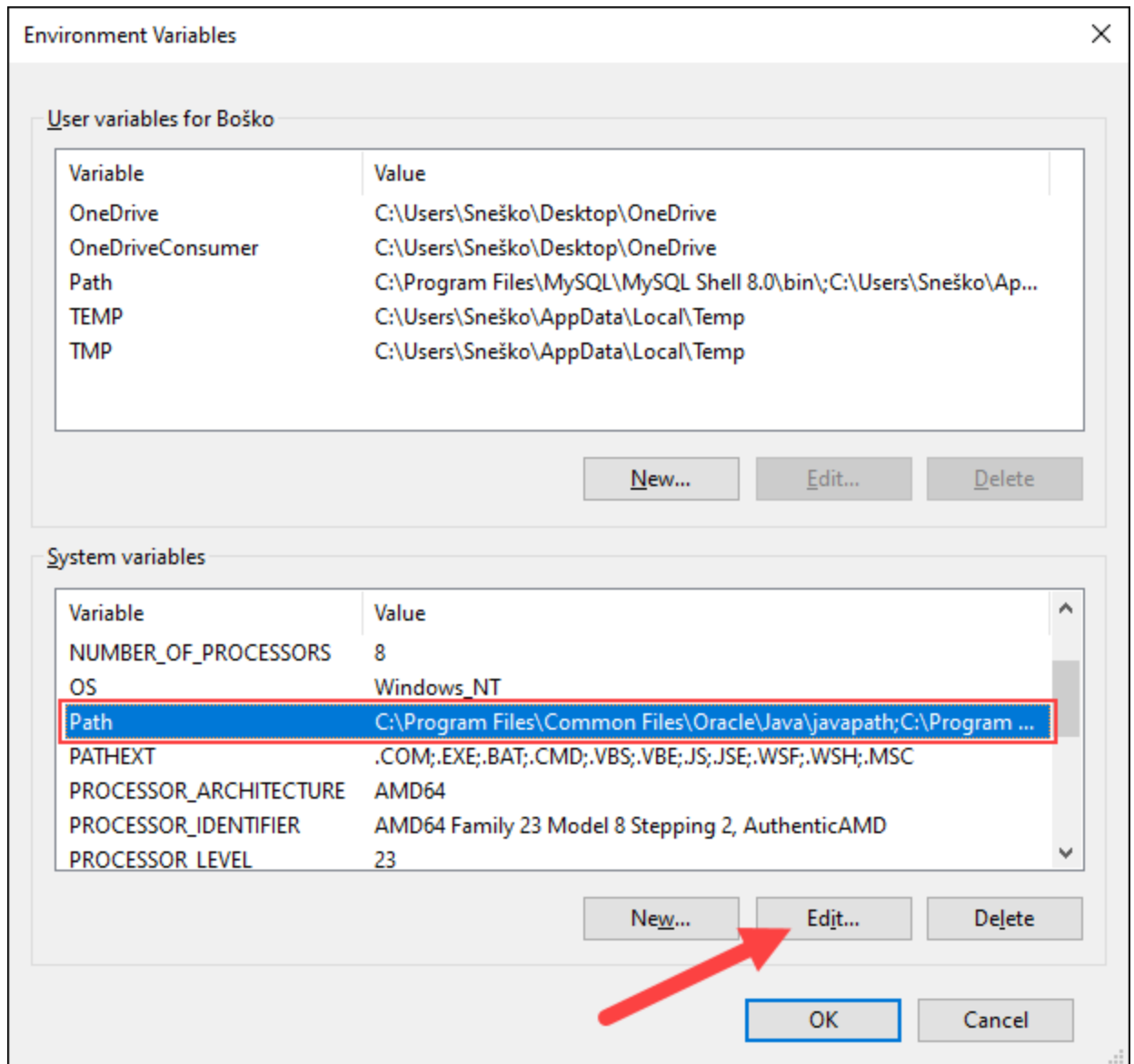
1. Open the **Start** menu and search for *environment variables*.
2. Select the **Edit the system environment variables** result.



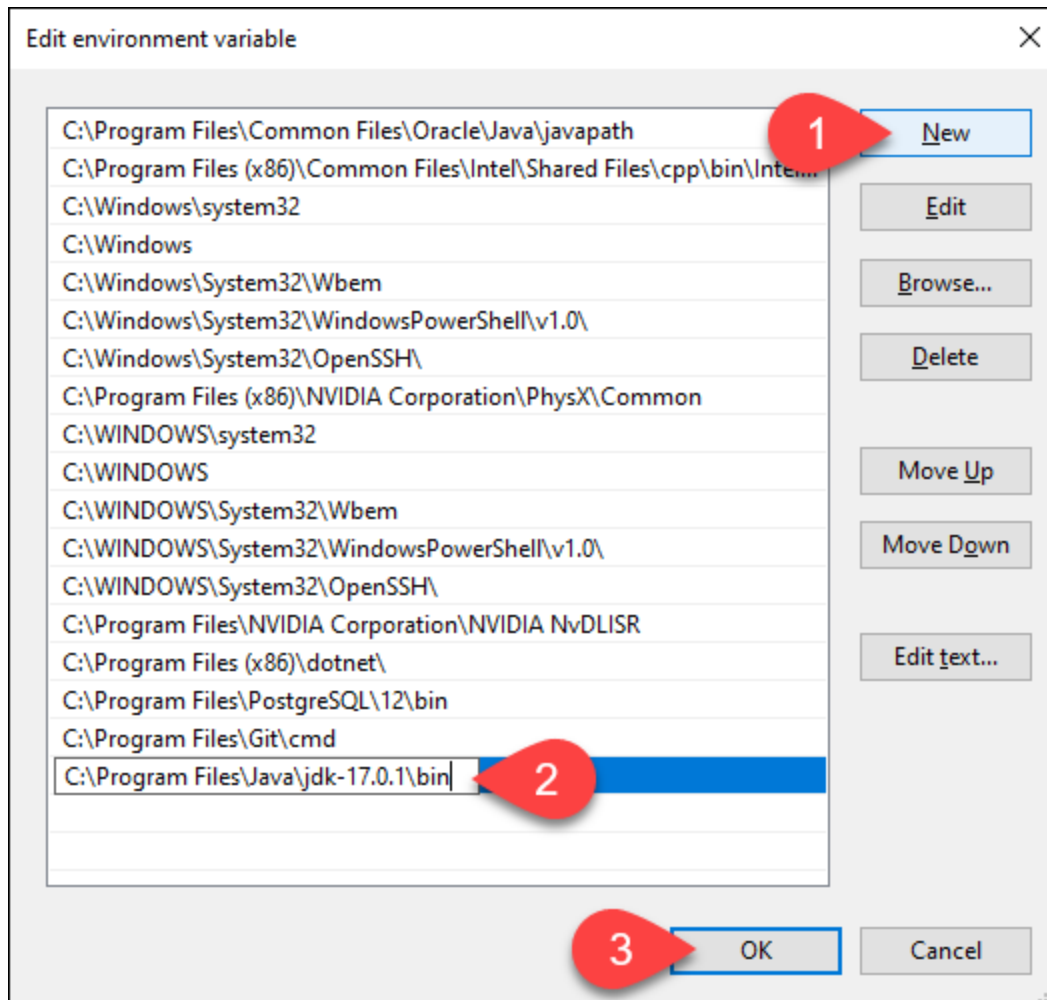
3. In the System Properties window, under the Advanced tab, click Environment Variables...



4. Under the System variables category, select the Path variable and click Edit:



5. Click the New button and enter the path to the Java bin directory

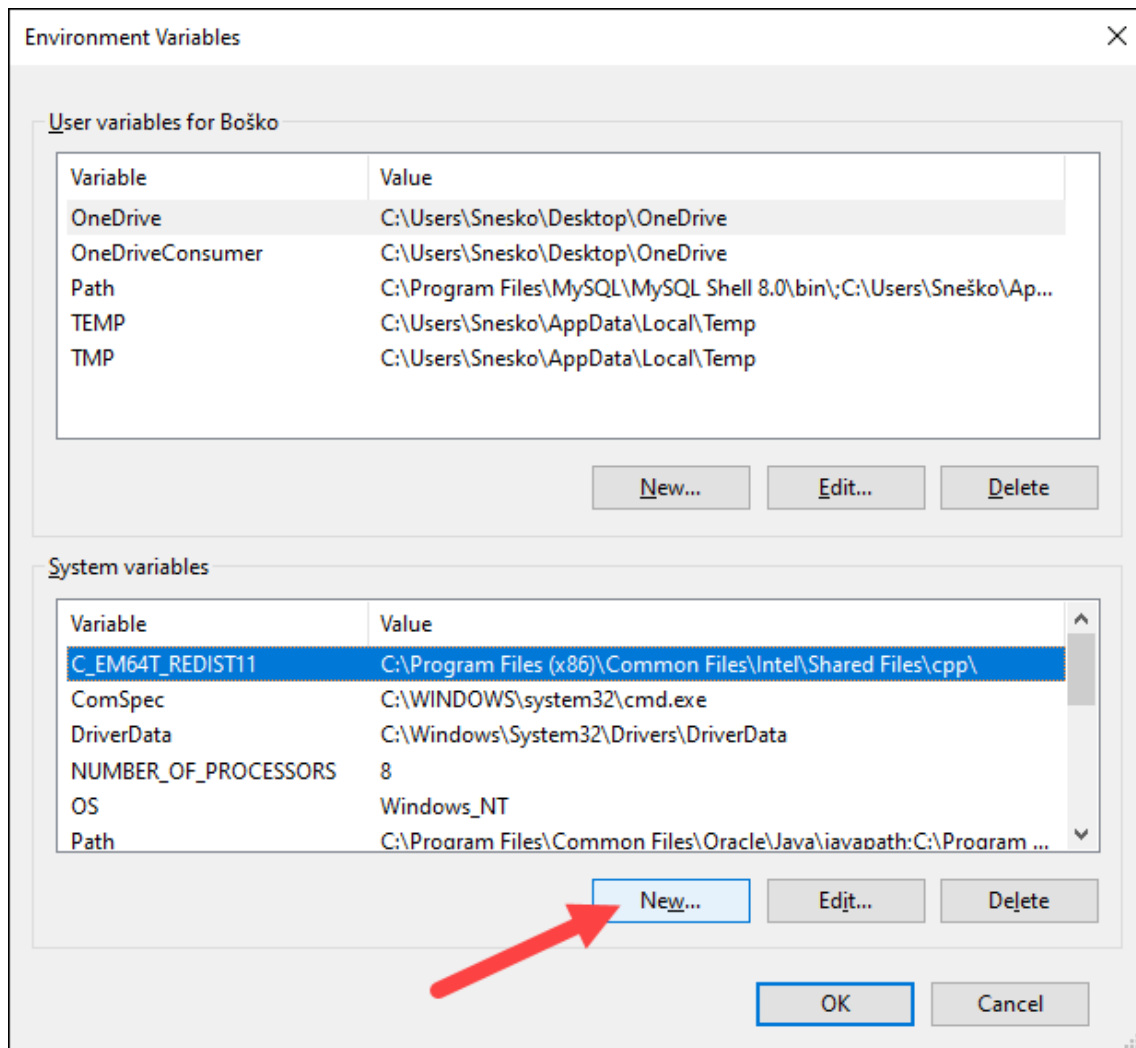


6. Click **OK** to save the changes and exit the variable editing window.

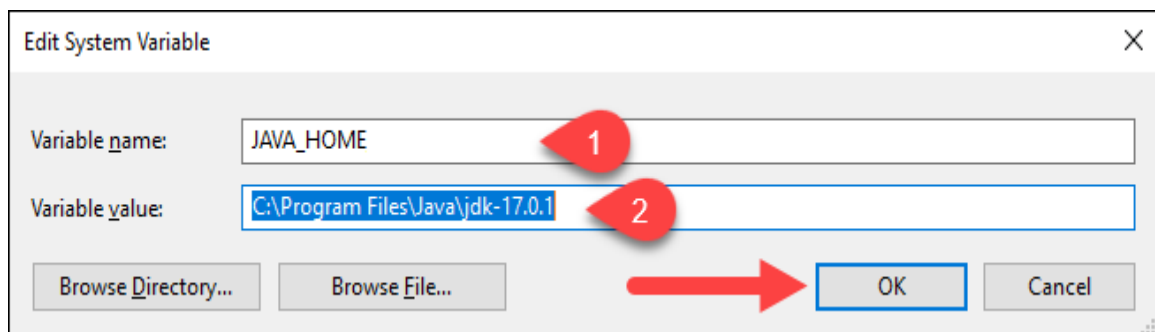
Step 2: Add JAVA_HOME Variable

Some applications require the **JAVA_HOME** variable. Follow the steps below to create the variable:

1. In the *Environment Variables* window, under the *System variables* category, click the **New...** button to create a new variable.



2. Name the variable as ***JAVA_HOME***.
3. In the variable value field, paste the path to your Java jdk directory and click **OK**.



4. Confirm the changes by clicking **OK** in the *Environment Variables* and *System properties* windows.

Test the Java Installation

Run the **java -version** command in the command prompt to make sure Java installed correctly:

```
C:\Users\boskom>java -version
java version "17.0.1" 2021-10-19 LTS
Java(TM) SE Runtime Environment (build 17.0.1+12-LTS-39)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.1+12-LTS-39, mixed mode, sharing)
```

If installed correctly, the command outputs the Java version. Make sure everything works by writing a simple program and compiling it. Follow the steps below: