

Digital Signature Certificate (DSC)

Signer Service Registration Instructions

For NFRA 2 e-Form

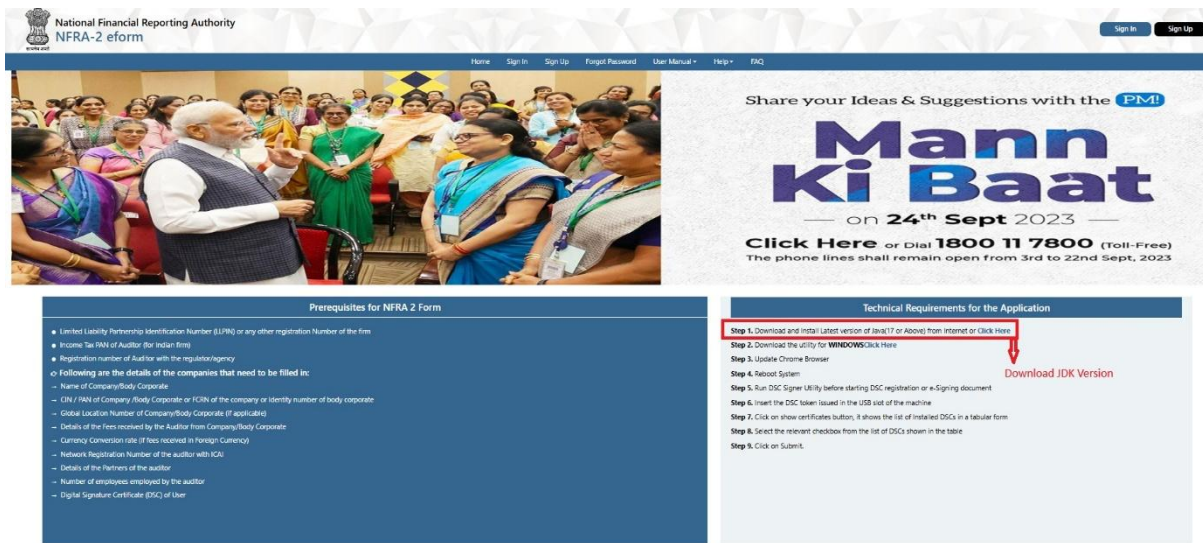
Instructions for installing the DSC Signer Service

Minimum Client's Machine Requirements	
Windows OS	Windows 7 & above
MAC OS	MAC 10.7 & above
Ubuntu OS	Ubuntu 18 & above
JRE	Version 21 or above appropriate as per OS 1. To be Downloaded by Individual User at client machine. (Refer website https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe for JRE installation). 2. User(s) with 32-bit windows OS needs to install 32-bit JRE. 3. User(s) 64-bit windows OS installs, 64-bit JRE

Step 1: On the Homepage, the user will see the instructions for installing of DSC on the Homepage. The link is provided for downloading:

- Latest version of Java
- DSC Signer Service utility

Refer Screenshot 1.

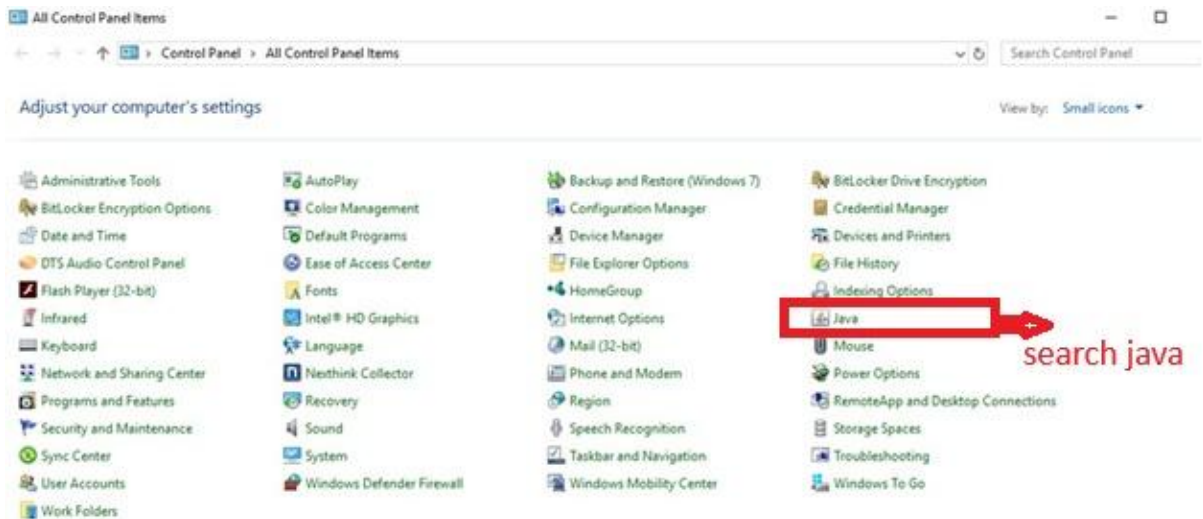


Screenshot 1

Checking a version manually depends on what software or operating system you are referring to. Here are instructions for common scenarios:

For Windows:

Step 2: To check availability of Java version in Windows, go to Control Panel. Click Java link as shown in **Screenshot 2**.



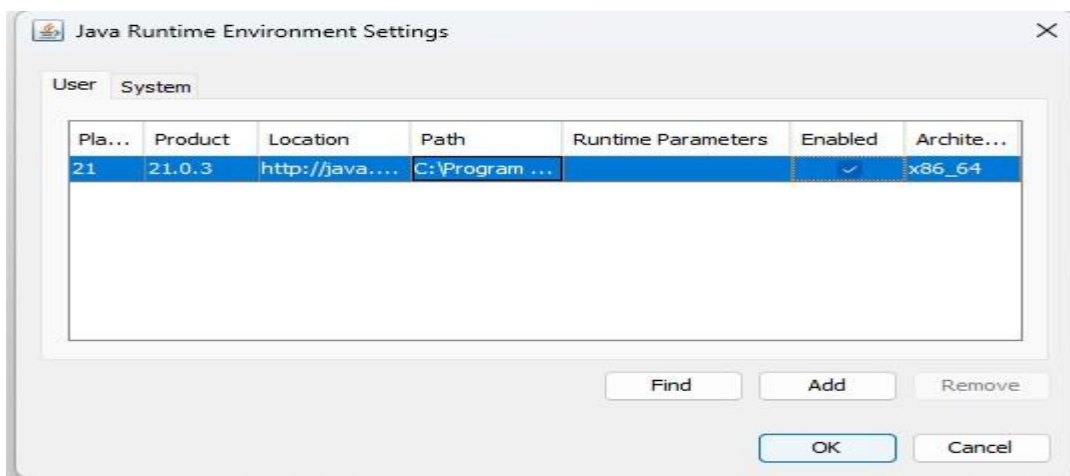
Screenshot 2

Step 3: A screen appears is shown in **Screenshot 3**, select Java tab and then click View Button.



Screenshot 3

Step 4: The version of Java will appear under User Tab as shown in **Screenshot 4**.



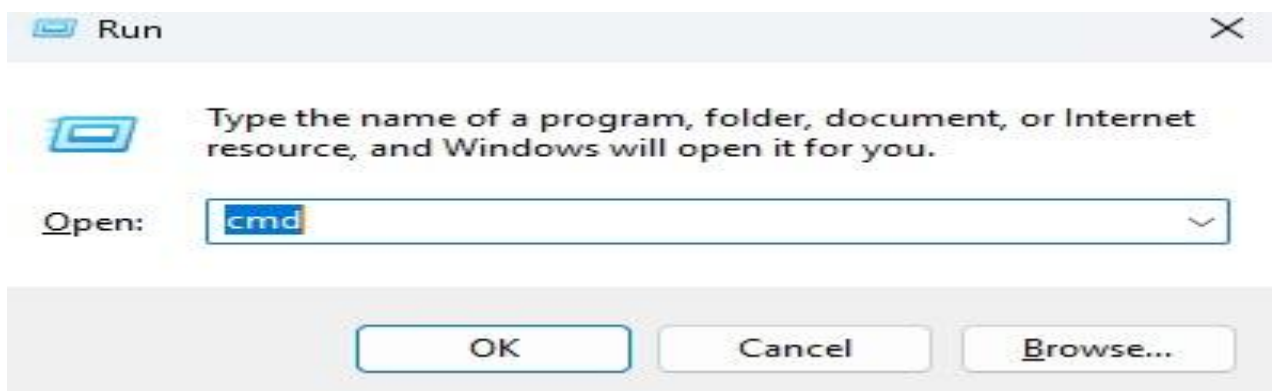
For Command Prompt:

1. To check the JDK version installed on a Windows machine, the most common and reliable method is using the Command Prompt. Open a new Command Prompt by searching for command in the Start menu.

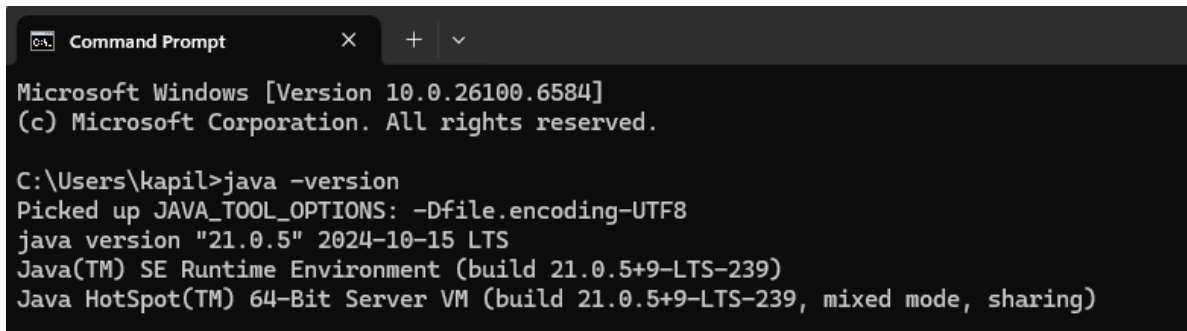
2. Open Command Prompt:

1. Press the Windows key + R to open the Run dialog.

Type **cmd** and press Enter, or search for "Command Prompt" in the Start menu.



1. Execute the **java -version** command:
2. In the Command Prompt, type **java -version** and press **Enter**.



```
Command Prompt
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kapil>java -version
Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF8
java version "21.0.5" 2024-10-15 LTS
Java(TM) SE Runtime Environment (build 21.0.5+9-LTS-239)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.5+9-LTS-239, mixed mode, sharing)
```

Important Note:

1. The user should make sure that only the latest version of Java should be installed on the system.
2. You should see, confirming that JDK 21 is installed if you don't see JDK 21 then and configured.
3. To install the latest version of Java, the user should click on the link given on the homepage. User will see the following screen. Refer **Screenshot 5**.

Download the JDK installer

1. Navigate to the official Oracle Java Downloads page in a web browser.
2. On the Downloads page, click the **JDK 21** tab (or the latest LTS version available) and select the **Windows** operating system.
3. Click the **x64 Installer** download link(https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe) to get the executable file (.exe).

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Java downloads Tools and resources Java archive

Earlier JDK versions are available below.

JDK 25 JDK 21

Java SE Development Kit 21.0.8 downloads

JDK 21 binaries are free to use in production and free to redistribute, at no cost, under the [Oracle No-Fee Terms and Conditions \(NFTC\)](#).

JDK 21 will receive updates under the NFTC, until September 2026, a year after the release of the next LTS. Subsequent JDK 21 updates will be licensed under the [Java SE OTN License \(OTN\)](#) and production use beyond the [limited free grants](#) of the OTN license will require a fee.

Linux macOS **Windows**

Product/file description	File size	Download
x64 Compressed Archive	186.05 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.zip (sha256)
x64 Installer	164.42 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe (sha256)
x64 MSI Installer	16316 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.msi (sha256)

Documentation Download

Release Information

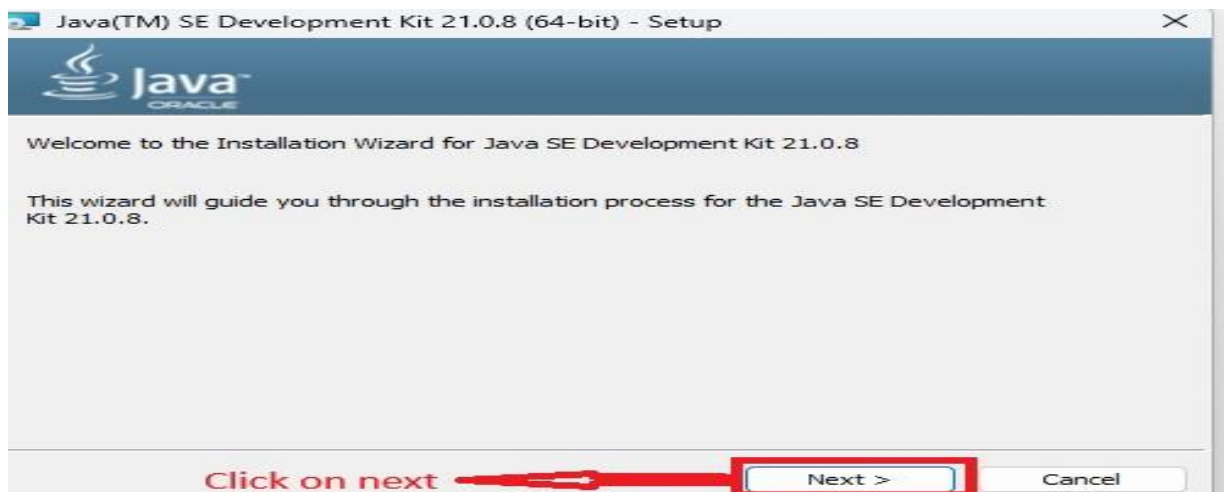
- [Online Documentation](#)
- [Installation Instructions](#)
- [Release Notes](#)
- [Documentation License](#)

Click on link and download .exe

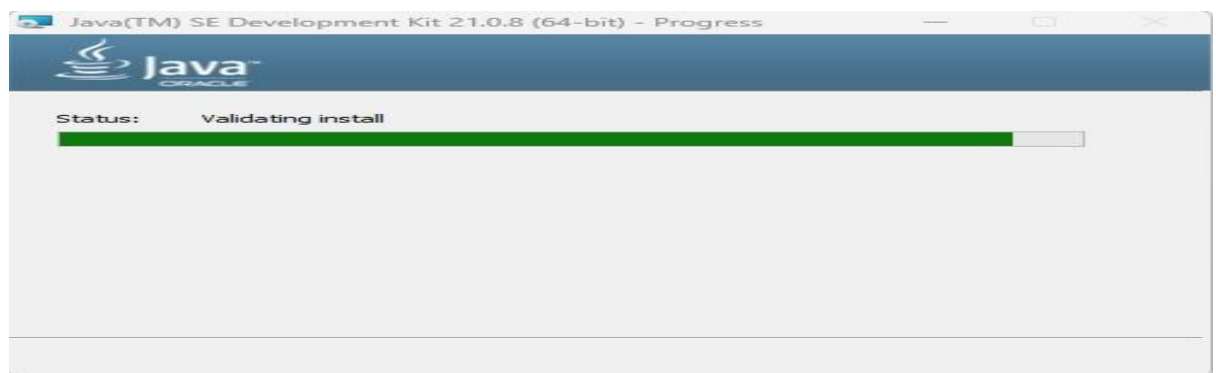
Screenshot 5

Run the JDK installer

1. Locate and double-click the downloaded .exe file to start the installation wizard.



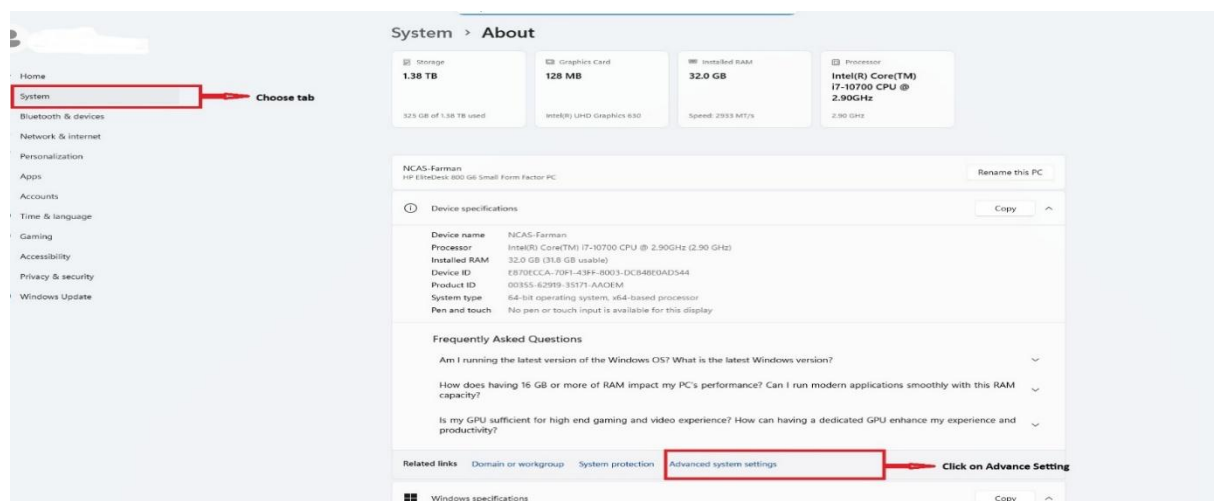
2. When the installer begins, a welcome screen will appear. Click **Next** to proceed.
3. You can keep the default installation location (e.g., C:\Program Files\Java\jdk-21) As a choose a different one. Click **Next** to begin the installation.



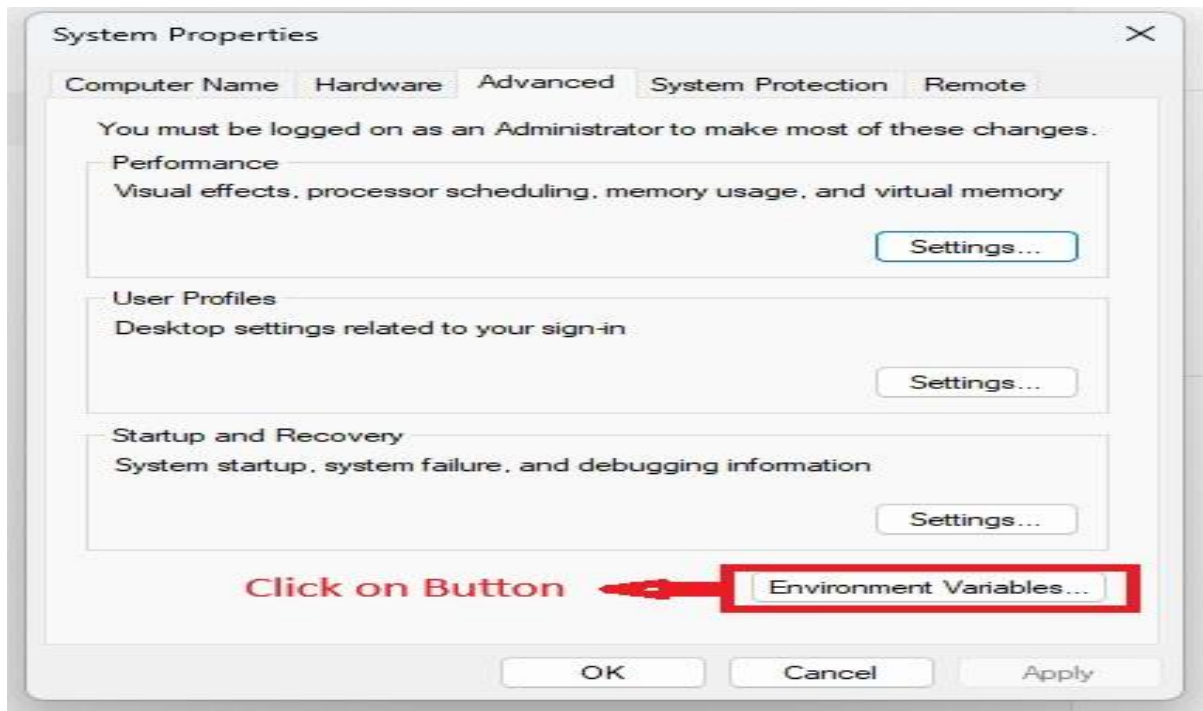
- Once the installation is complete, click **Close** to exit the wizard.

Set up environment variables

- Right Click on **This PC** then click on *Properties* Open this dialog

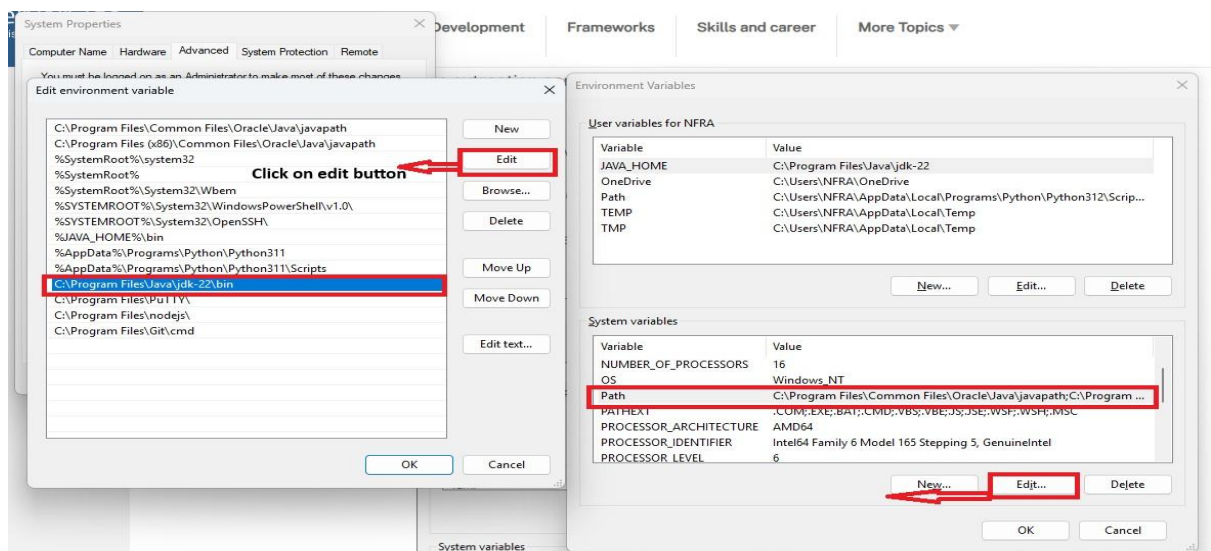


- Choose the Advance system settings option on dialog.
- Open the System properties and click on tab advanced "**environment variables**".

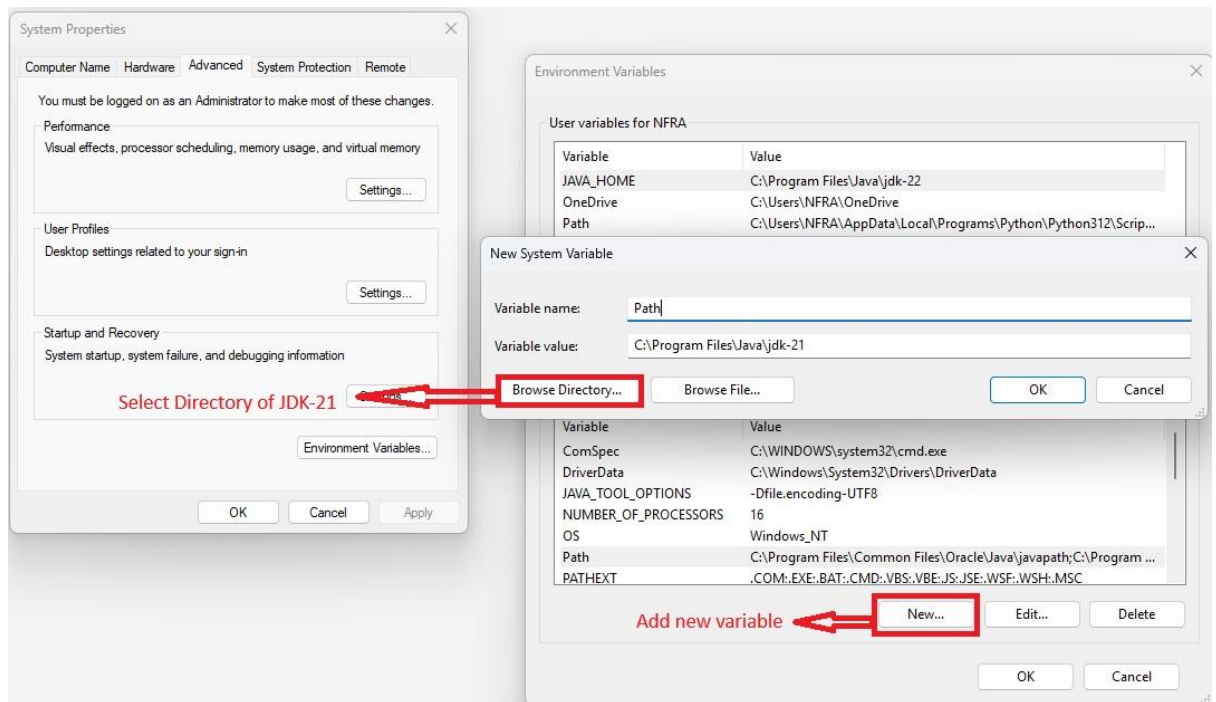


Add JDK to the Path variable

1. In the same *Environment Variables* window, select the **Path** variable from the "System variables" list and click **Edit**.
2. Click **OK** on all open windows to apply the changes.

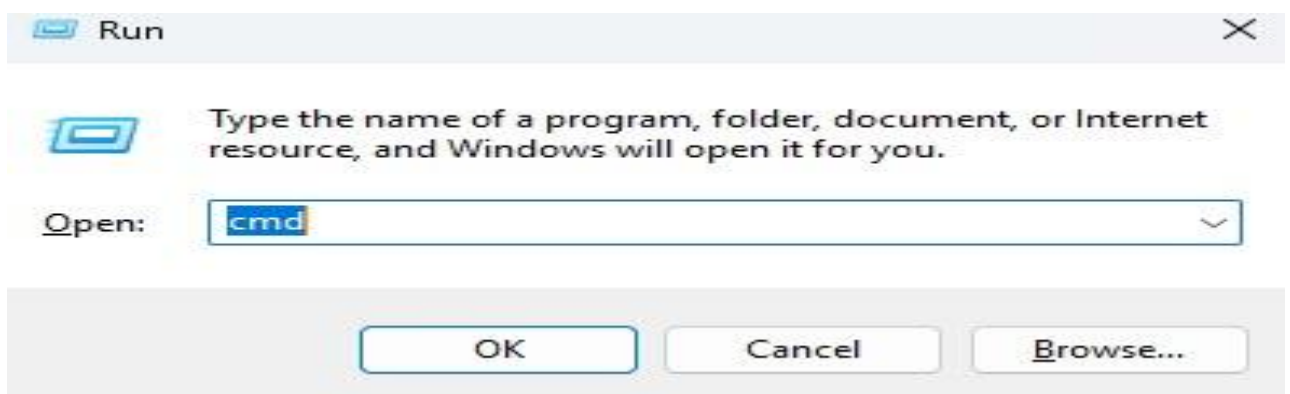


If Path variable doesn't exist in properties, you can add a **user variable** or a **system variable**



Verify the installation

1. Open a new Command Prompt by searching for command in the Start menu.
 1. Press the Windows key + R to open the Run dialog.
 2. Type **cmd** and press Enter, or search for "Command Prompt" in the Start menu.



3. In the Command Prompt, type **java -version** and press **Enter**.
4. You should see output, confirming that JDK 21 is installed and configured:

```
Command Prompt
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

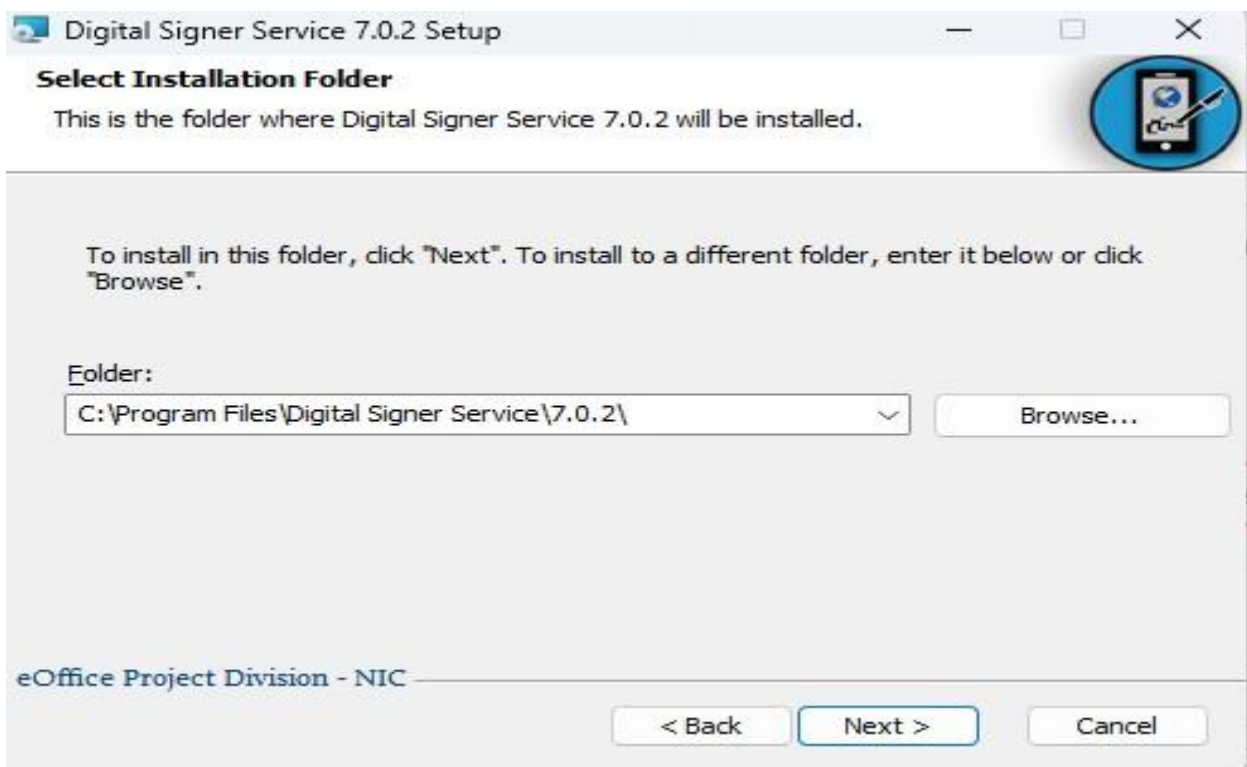
C:\Users\kapil>java -version
Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF8
java version "21.0.5" 2024-10-15 LTS
Java(TM) SE Runtime Environment (build 21.0.5+9-LTS-239)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.5+9-LTS-239, mixed mode, sharing)
```

2. In case prior older versions of Java are installed on the system, the user should uninstall it and keep only the latest version.

Step 5: On the Homepage, user should click on the link for the DSC Signer Service. Clicking on the link leads to download of a zip file.

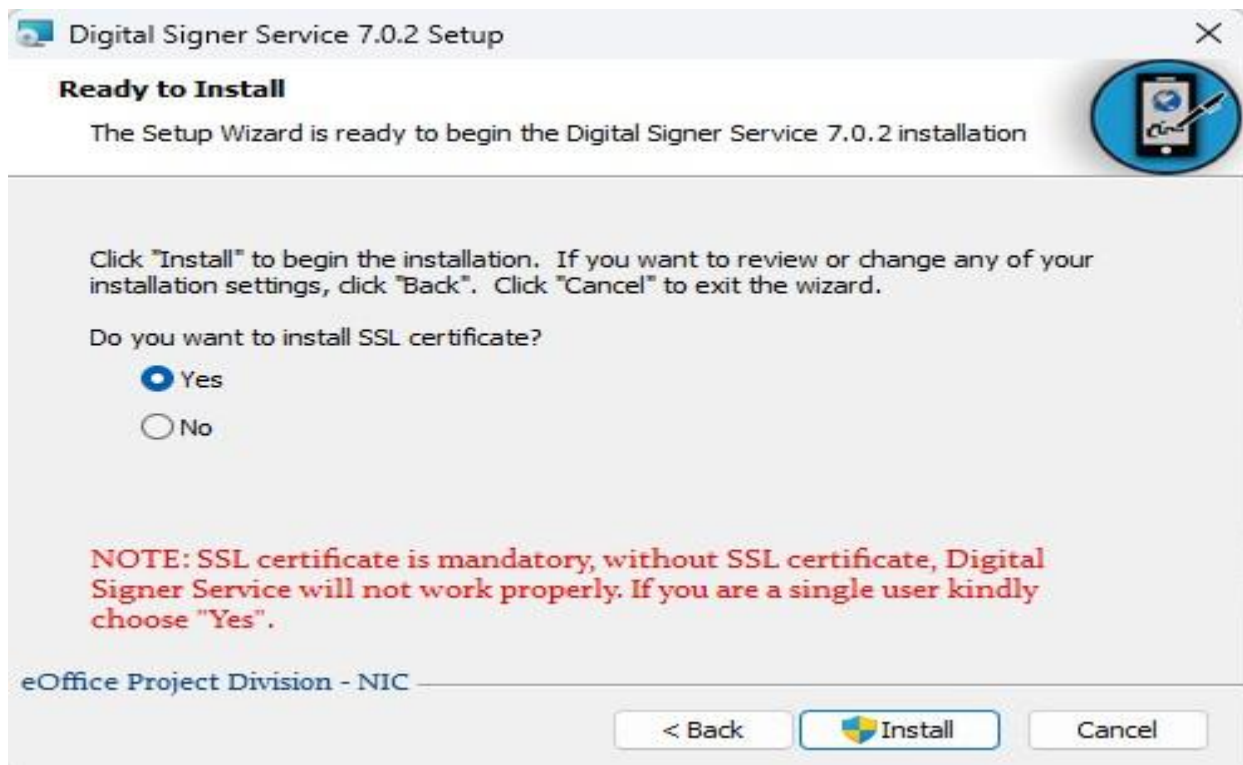
Step 6: The downloaded file has the latest version of the Signer Service i.e. v 7.0.2 Locate the DSC_Signer_Service v 7.0.2.exe file from downloaded bundle.

Step 7: Double click required exe file to start the installation. Refer **Screenshot 6**.



Screenshot 6

Step 8: DSC Signer Service: License Agreement window appears, read the agreement and click I Agree button as shown in **Screenshot 7**.



Screenshot 7

Step 9: The process may take some time for the complete installation successfully as shown and click on finish **Screenshot 8.**



Screenshot 8

Step 11: Now, Double clicks the desktop icon “DSC Signer Service”. The service will take few seconds to start. A message prompts “DCS Signer Service started successfully”, as shown in **Screenshot 9**.



Screenshot 9

Important Note:

1. Only the latest version downloaded from NFRA2 website should be installed on the system.
2. Any prior DSC Service Signer files should be uninstalled from the system.