JAVA Development Kit Installation Steps

Please review all concepts of C & C++ Programming before JAVA session start.

Step 1:

Go to below link download JDK 21 as per your version 32bit or 64 bit (as its latest LTS version).

Direct Download: https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe

or

https://www.oracle.com/java/technologies/downloads/

oracle.com/java/technologies/downloads/#jdk21-windows

Tools and resources   Java downloads   Java archive

JDK 23   **JDK 21**   GraalVM for JDK 23   GraalVM for JDK 21

JDK Development Kit 21.0.5 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	185.91 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.zip (sha256)
x64 Installer	164.28 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe (sha256)
x64 MSI Installer	163.03 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.msi (sha256)

Step 2: **Once JDK downloads completes,**

Run the .exe for installing, Click next.

**Step 3:** **Once installation completes, click close**
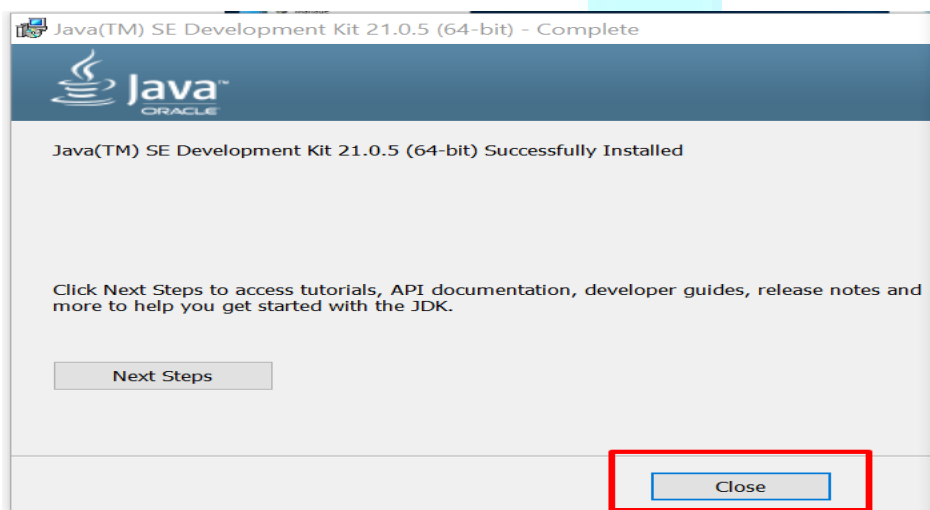
After successful installation of JDK , we have to set class path for java.

Here the PATH variable gives the location of executable like javac, java etc.

The CLASSPATH variable gives location of the library files

<p align="center" style="color:red">Steps to set the PATH & CLASSPATH</p>

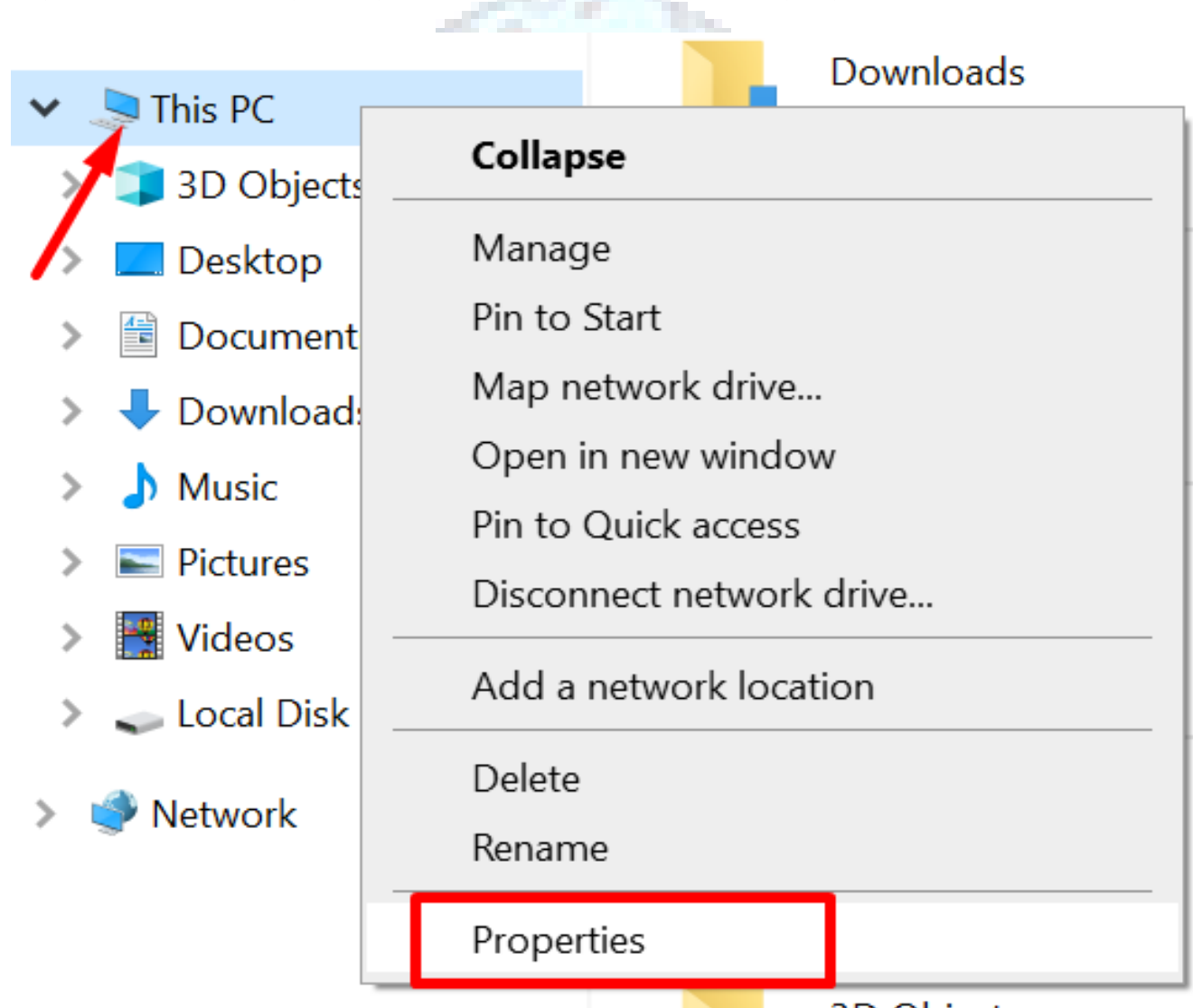**Prerequisite:** Copy the path of bin folder where our JDK is actually installed
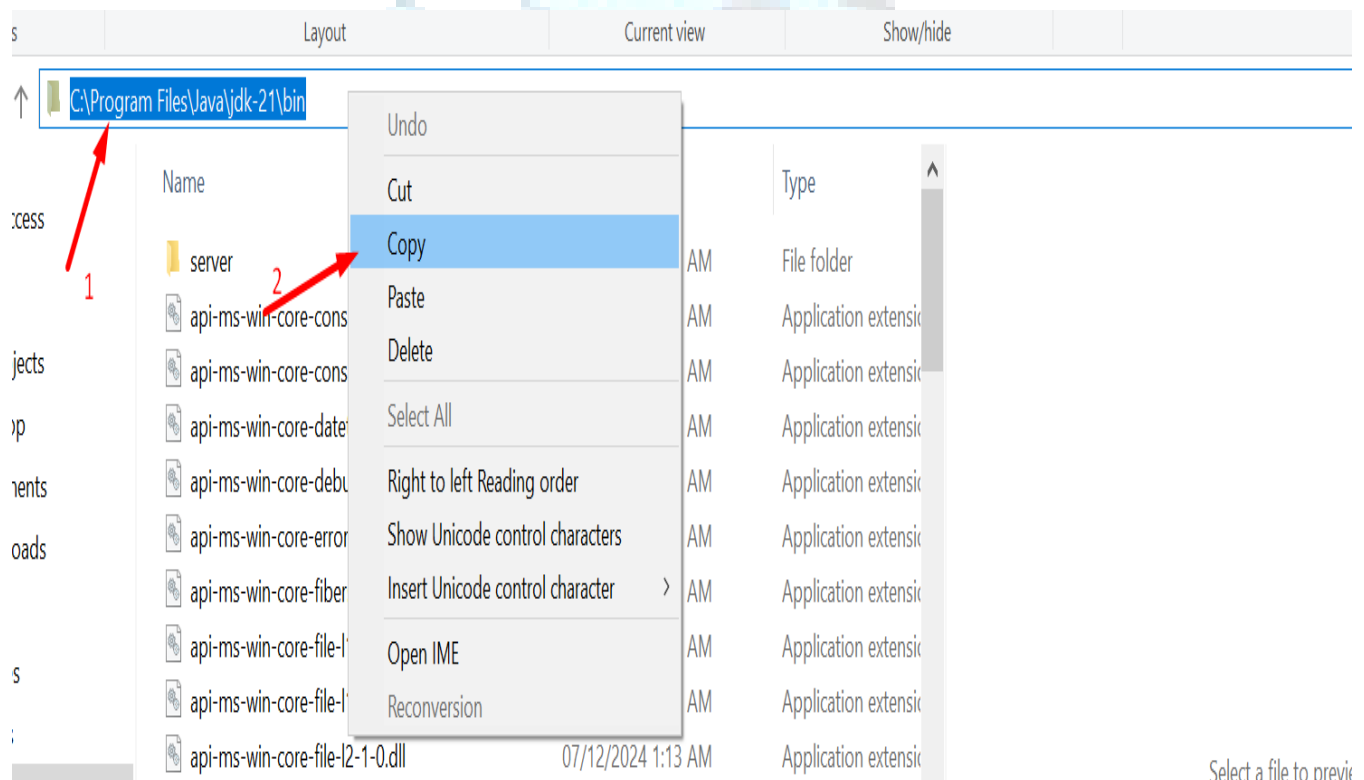
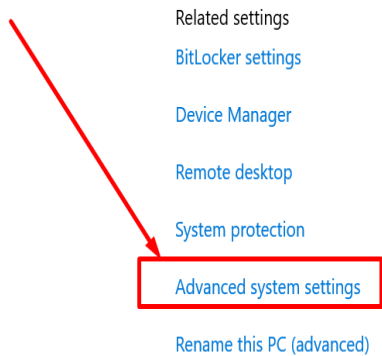

eg: **C:\Program Files\Java\jdk-21\bin**

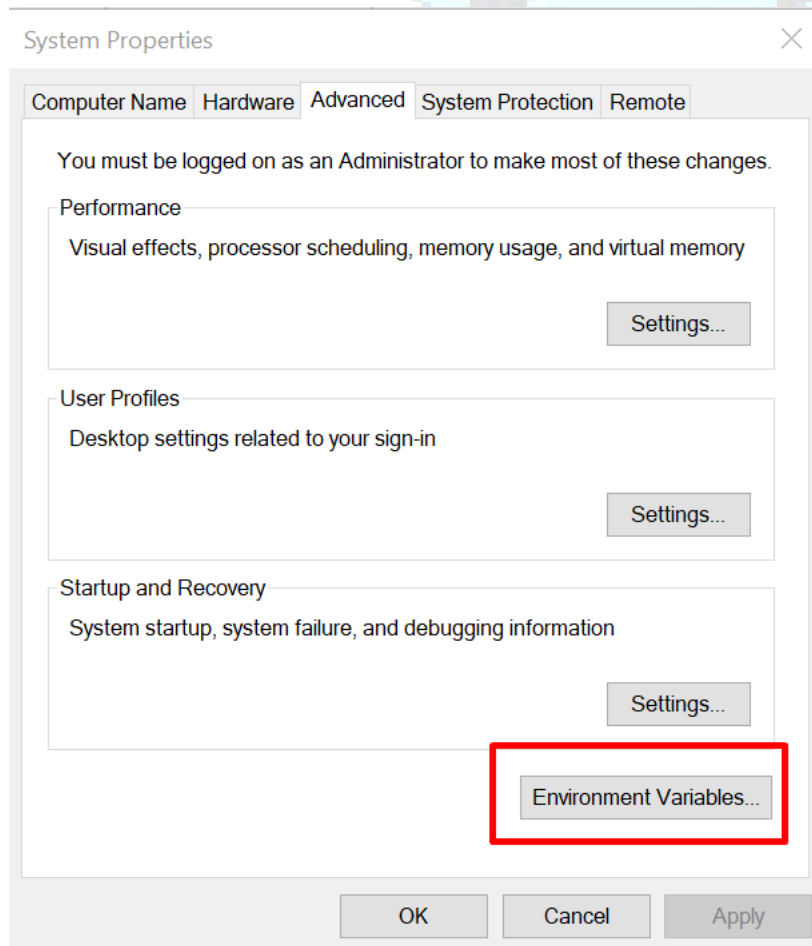# Follow the below steps carefully

Step 1: press

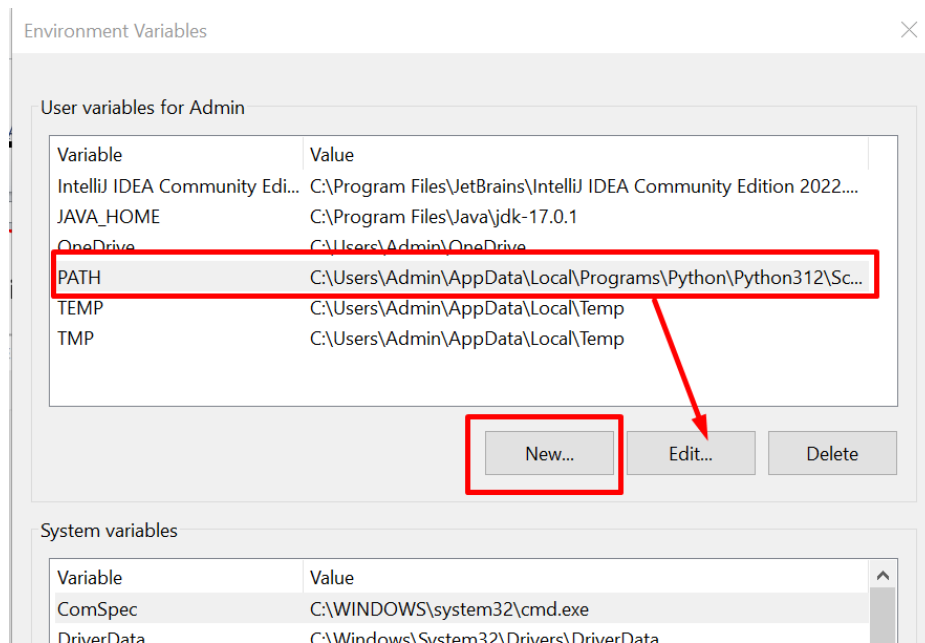**⊞ + E**

Right click on the My Computer or This PC & Select the properties

This PC
- 3D Objects
- Desktop
- Document
- Downloads
- Music
- Pictures
- Videos
- Local Disk

Network

Downloads

Collapse

Manage

Pin to Start

Map network drive...

Open in new window

Pin to Quick access

Disconnect network drive...

Add a network location

Delete

Rename

Properties

Step 2: Click on Advanced System Settings

Related settings

BitLocker settings

Device Manager

Remote desktop

System protection

Advanced system settings

Rename this PC (advanced)

Step 3: Click on Environment Variables

System Properties ✕

Computer Name Hardware Advanced System Protection Remote

You must be logged on as an Administrator to make most of these changes.

Performance

Visual effects, processor scheduling, memory usage, and virtual memory

Settings...

User Profiles

Desktop settings related to your sign-in

Settings...

Startup and Recovery

System startup, system failure, and debugging information

Settings...

Environment Variables...

OK   Cancel   Apply

Step 4: check PATH variable is there or not

a. if PATH variable is Not then Click *New..* **Button from User**

variables. (shown in above image).

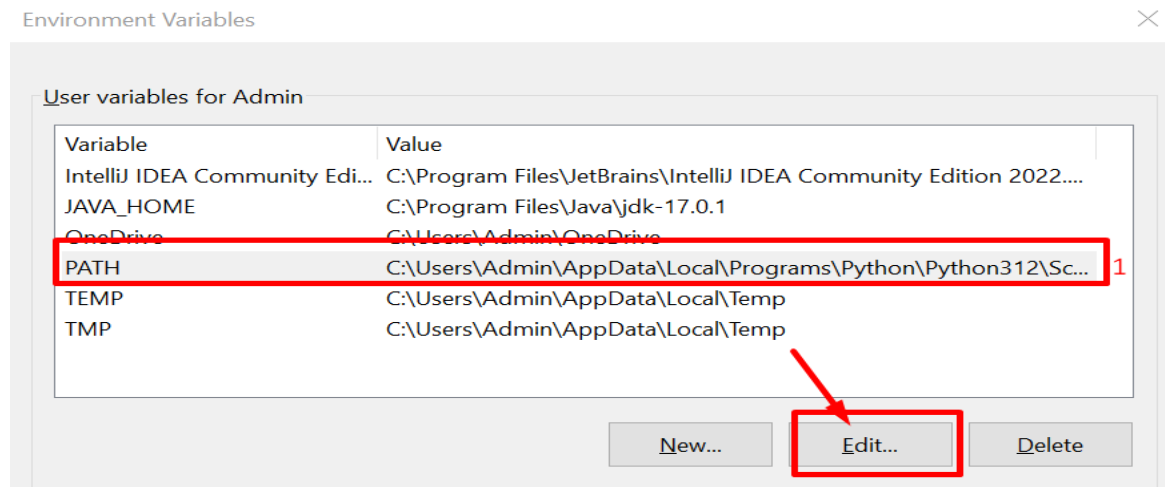**Type PATH in variable name**

Paste the path where the JDK is installed i.e. as shown below. : C:\Program Files\Java\jdk-21\bin
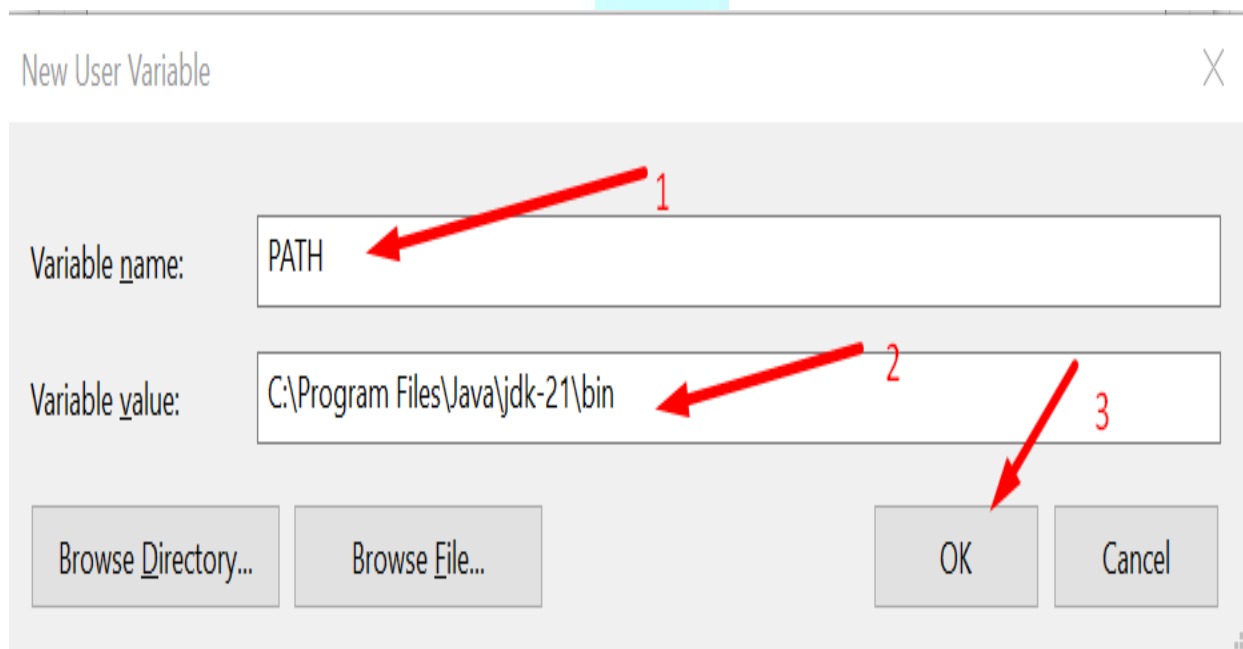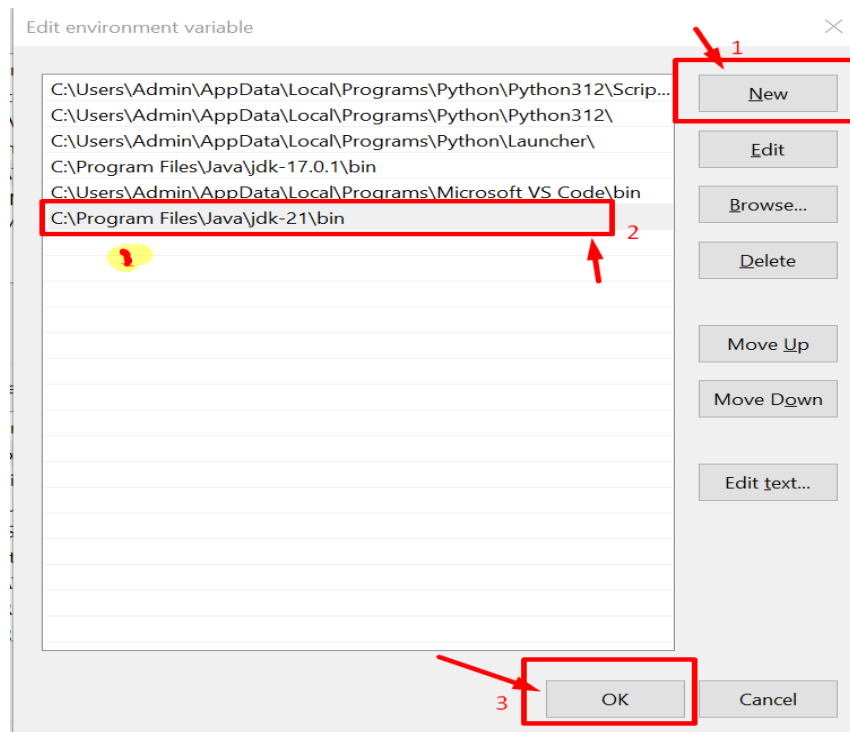
b. if PATH variable is then

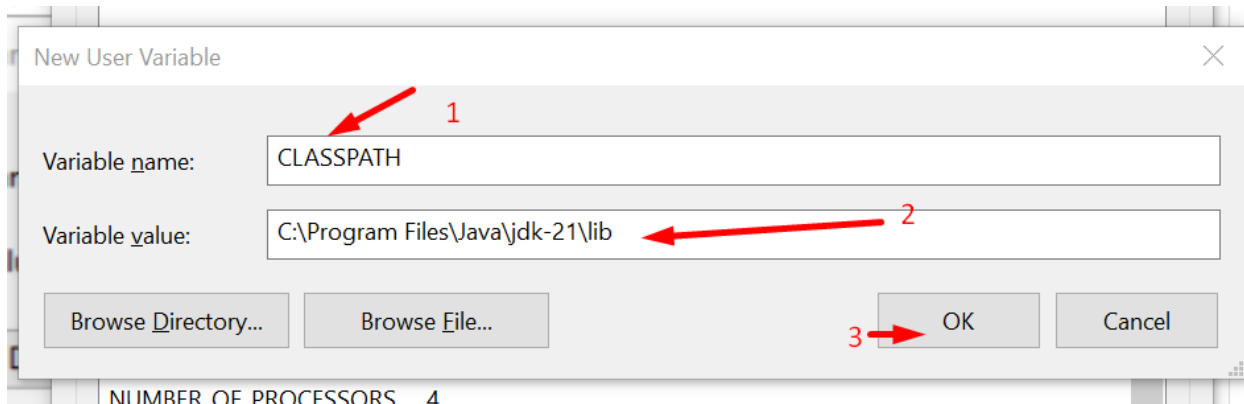## select the PATH & Click *Edit..* Button from User variables.

Click on New.

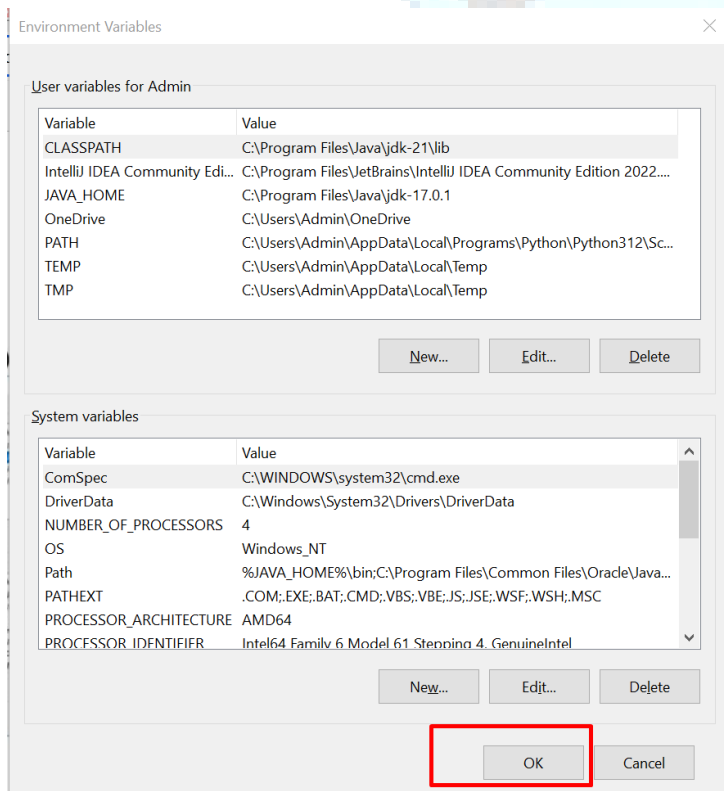**Paste the path where the JDK is installed i.e. as shown below. : C:\Program Files\Java\jdk-21\bin**

Click OK.

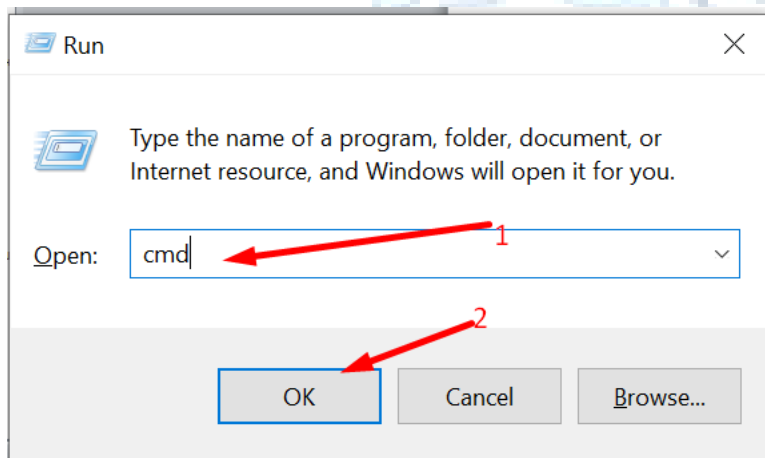## Step 5: You can follow similar steps to set CLASSPATH

Step 6: Click OK.

Step 7: **Open the command prompt and check whether the java is installed or not properly**

Press

Then type cmd in Run dialog and click ok

Step 8: Type below command
java –version
if you see output on command prompt as below , then our java is installed properly

Step 9:

Lets go ☺

Start Programming…………Hello JAVA