

Day 1 Agenda :

OOAD, Maven

OOAD – Object Oriented Analysis Design – SE Methodology to Design System using OO Concepts

POP – Procedural Oriented Programming

OOAD

UML – Unified Modelling Lang - General Purpose Visual Modelling Lang

- 1) Use Case Diagram
- 2) Activity Diagram
- 3) Architecture Diagram
- 4) ER Diagram
- 5) Class Diagram
- 6) Flowcharts

Maven –

What – Maven is Project Management Tool (Build, Scan, Deploy, Dependency Management, Packaging, Testing)

Why – Building (Converting Source code to Byte Code), Testing, Packaging (Converting to a single jar/war/ear), Manage Dependency,

How

Download JDK8/11 if it is not already available in your system.

<https://www.oracle.com/in/java/technologies/downloads/#java8-windows>

Check the version of JAVA installed in your system, using the below command in command prompt.

“java -version”

```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

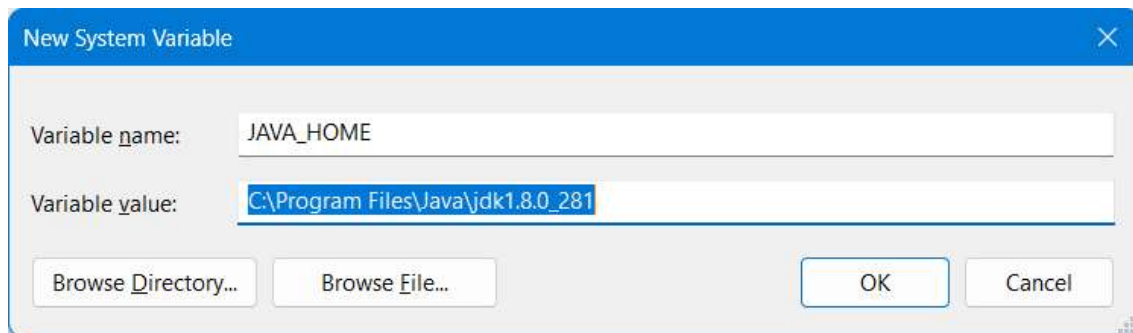
C:\Users\Siva>java -version
java version "11.0.11" 2021-04-20 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.11+9-LTS-194)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.11+9-LTS-194, mixed mode)

C:\Users\Siva>

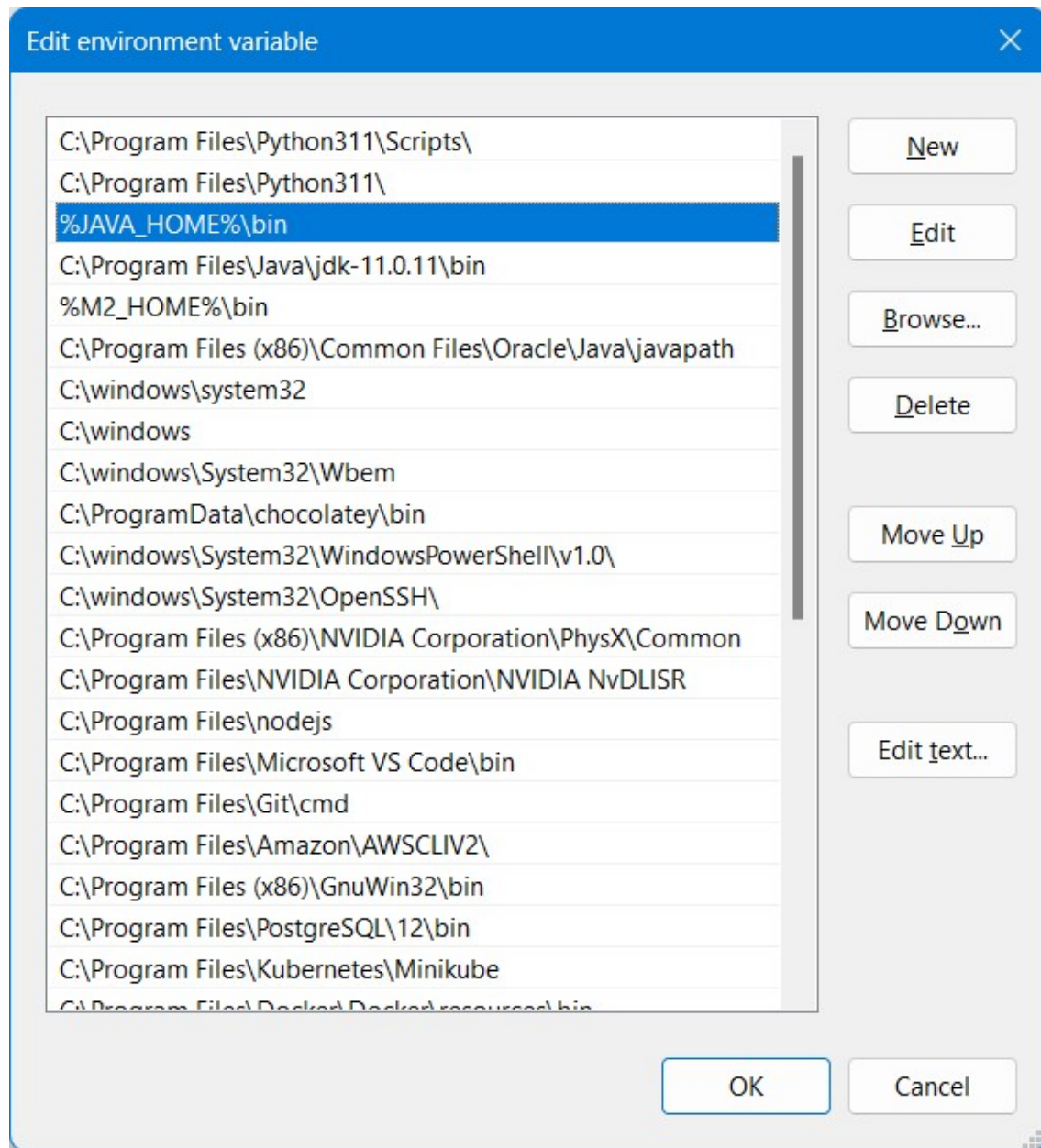
C:\Users\Siva>
```

Manage Multiple versions of JAVA using Environment Variable

Add new environment variable "JAVA_HOME" if it is not there already.



Modify the "path" environment variable to include this %JAVA_HOME%\bin and move it to top.

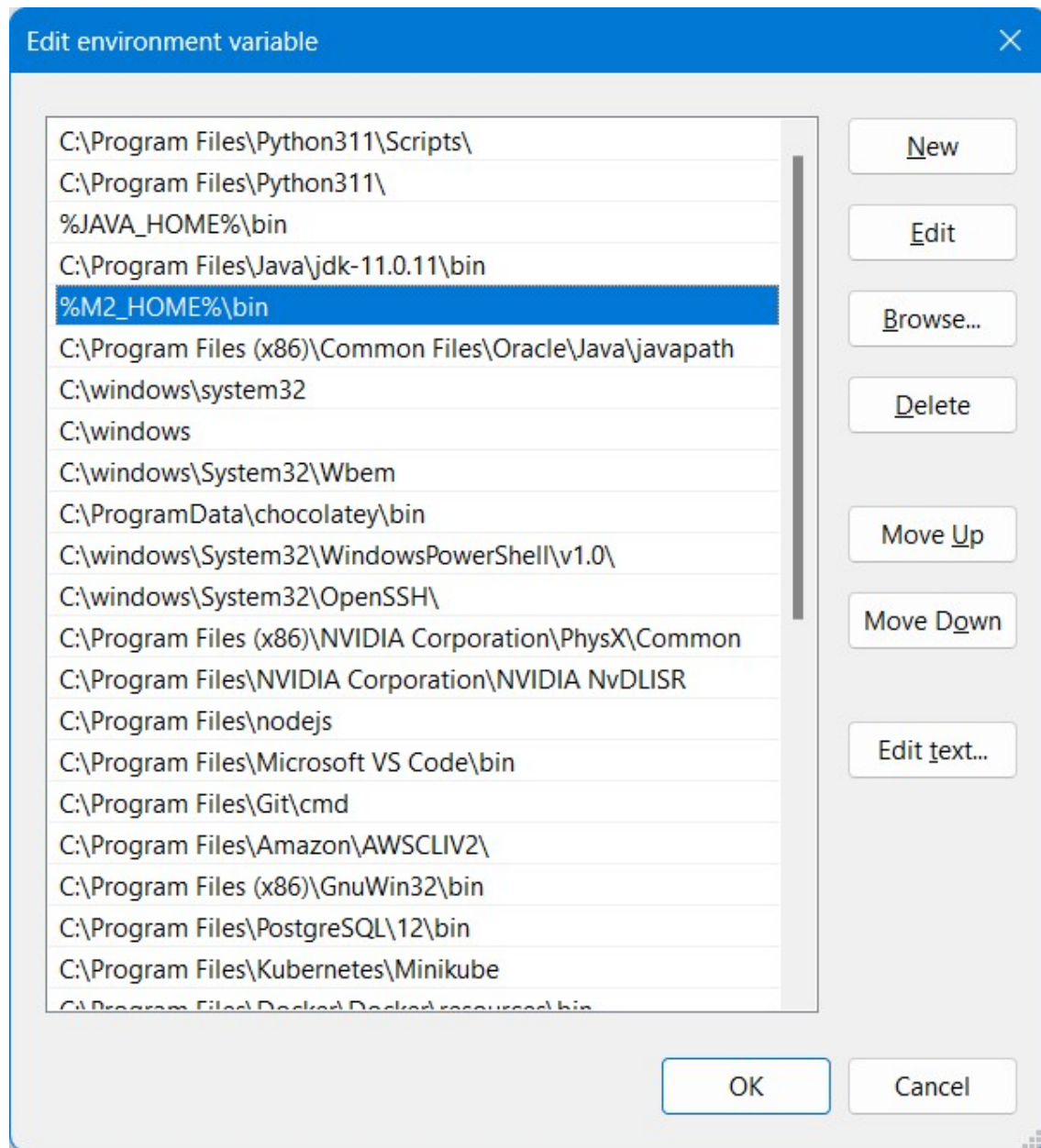


Download Maven Zip file from Official site

<https://maven.apache.org/download.cgi>

Extract the content to C drive

Then add "M2_HOME" to the environment variable



Confirm the maven version by using the following command

```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Siva>mvn -v
Apache Maven 3.9.5 (57804ffe001d7215b5e7bcb531cf83df38f93546)
Maven home: C:\apache-maven-3.9.5
Java version: 1.8.0_281, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_281\jre
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\Siva>
```

POM – Project Object Model

Backbone of Maven is pom.xml file (Configuration)

<groupId> (reverse of the company url) we follow package naming standards

<artifactId> name of the project

<version> 0.0.1