

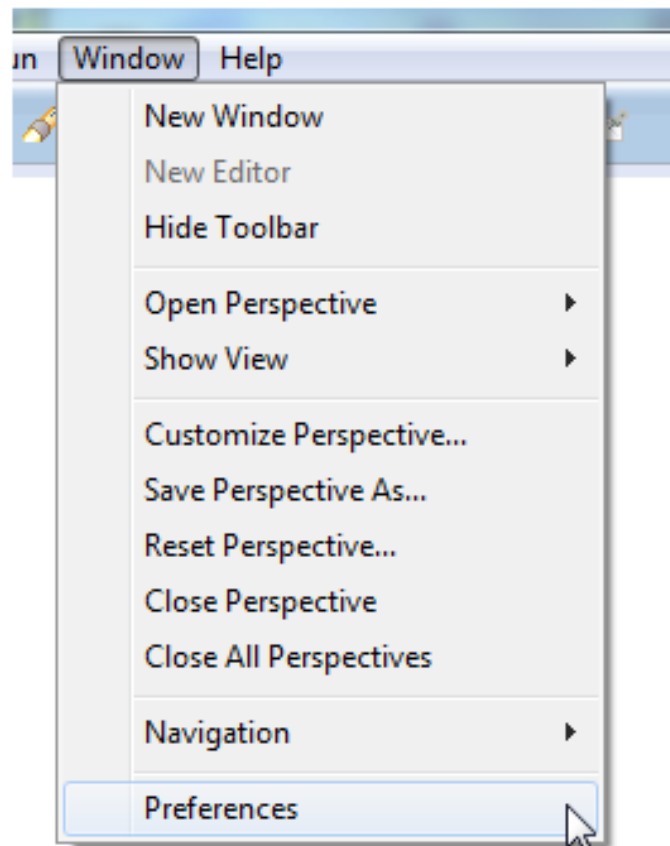
Installation of OpenCV in java on Window

Prerequisites:

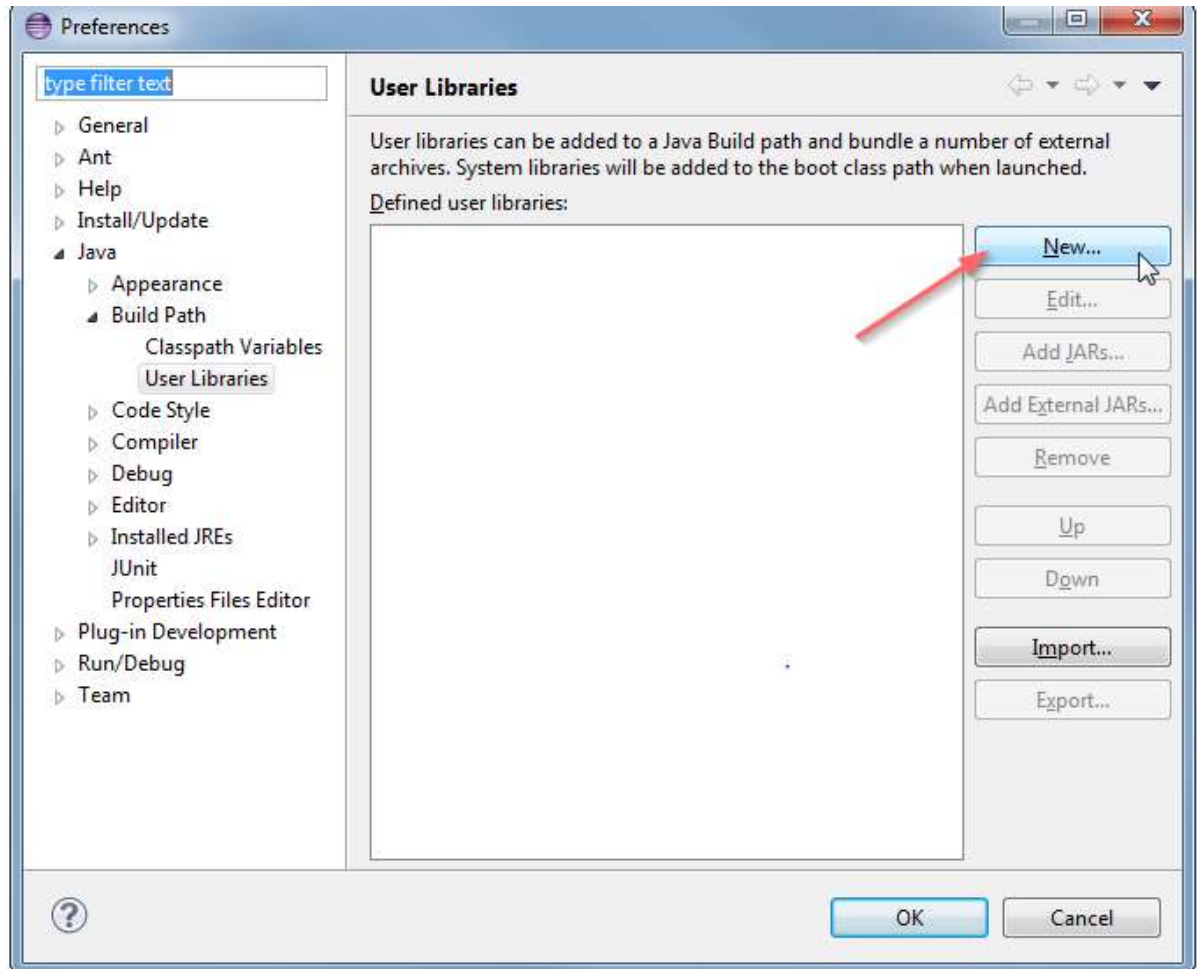
I am expecting that you have already installed Java and Eclipse.

Steps to install OpenCV in java on Window

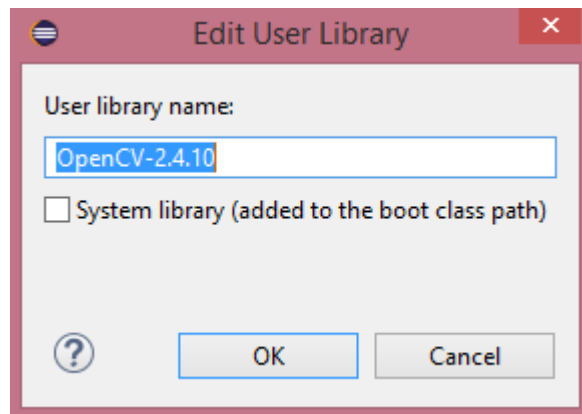
- Open this link <http://opencv.org/releases.html> to download OpenCV Latest version
- Click on win pack. And download it opencv-2.4.10.exe.
- After downloading, extract it under a simple location like C:\. I am using version 2.4.10,
- Launch Eclipse and select Window → Preferences from the menu.



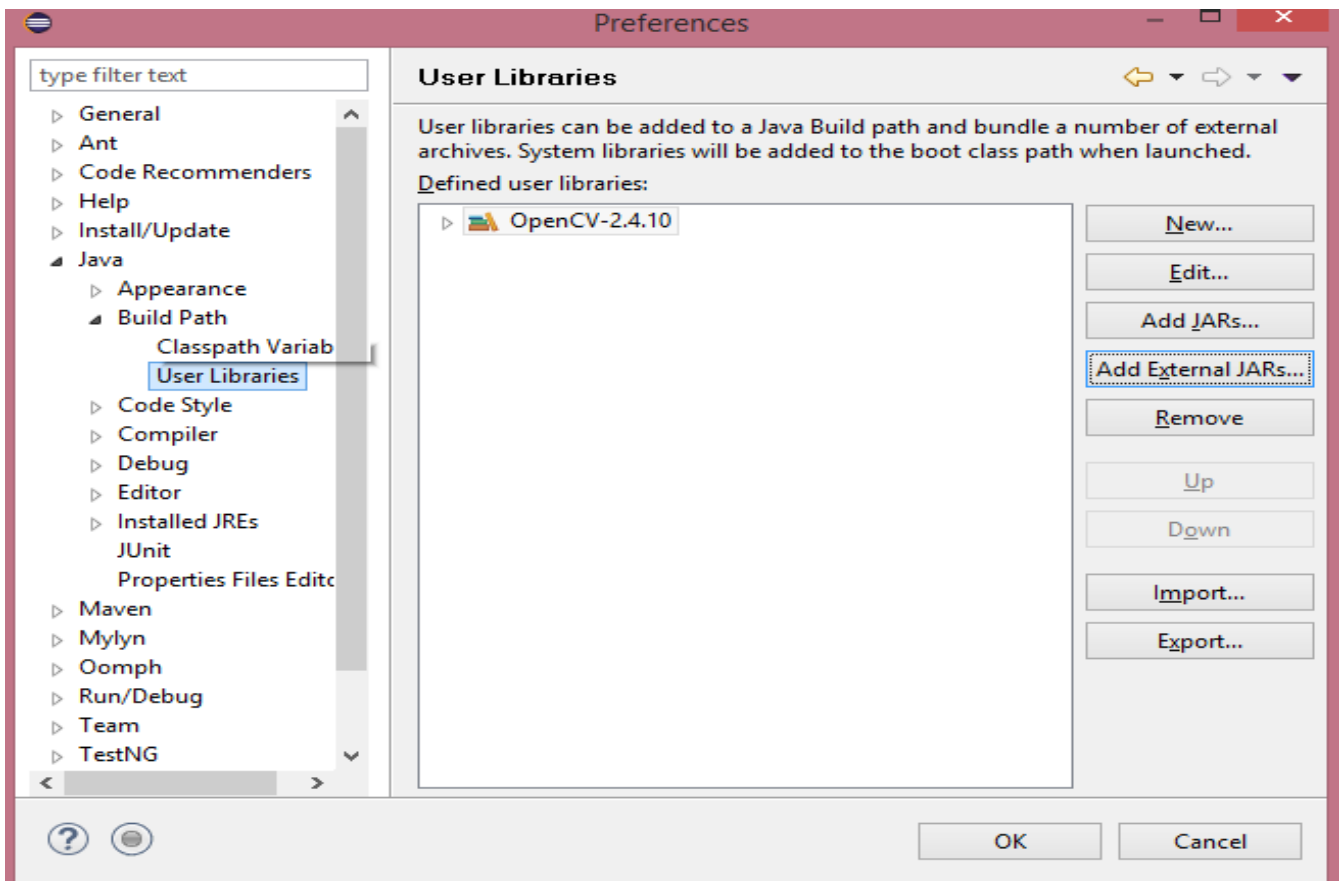
- Navigate under Java -> Build Path -> User Libraries and click New.



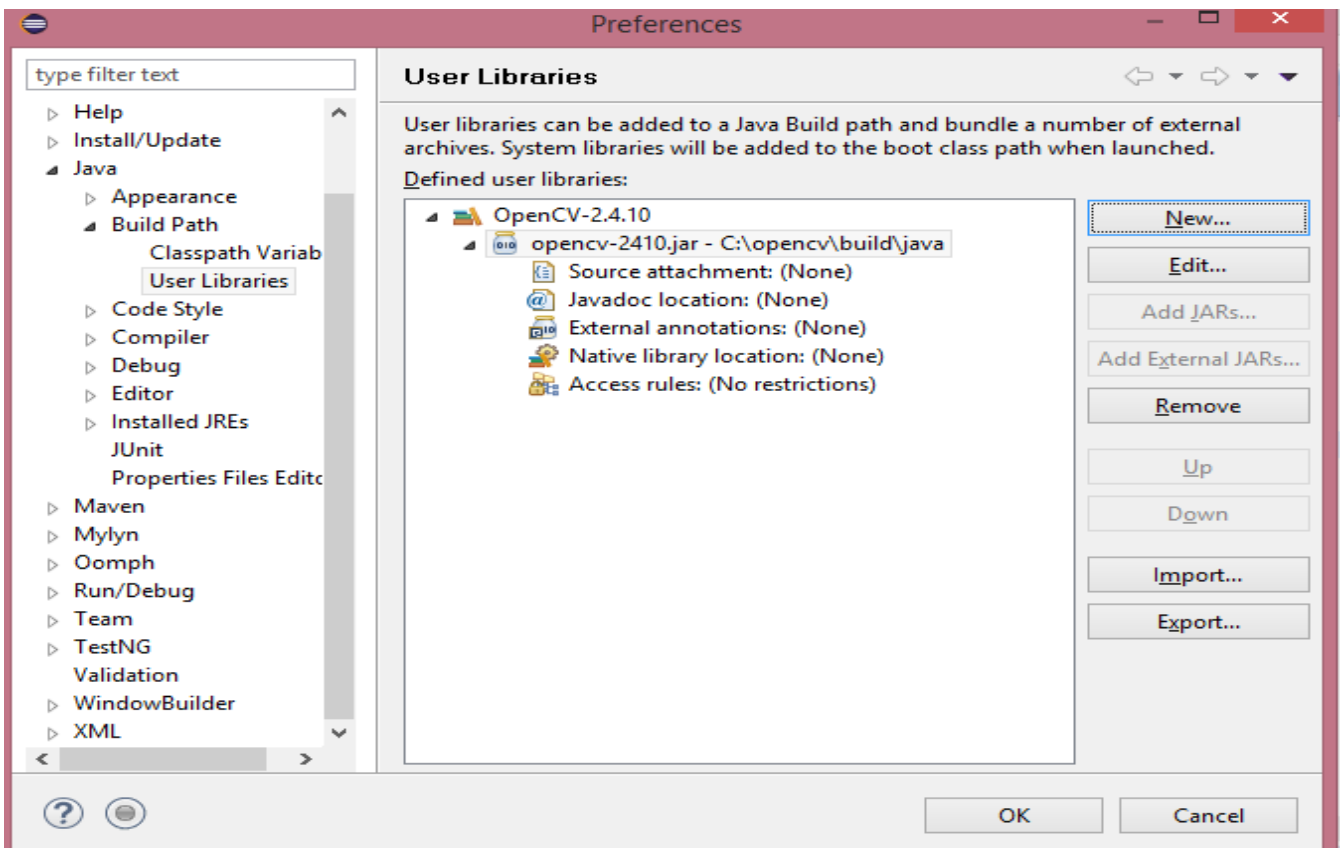
- Enter a name, e.g. OpenCV-2.4.10, for your new library.



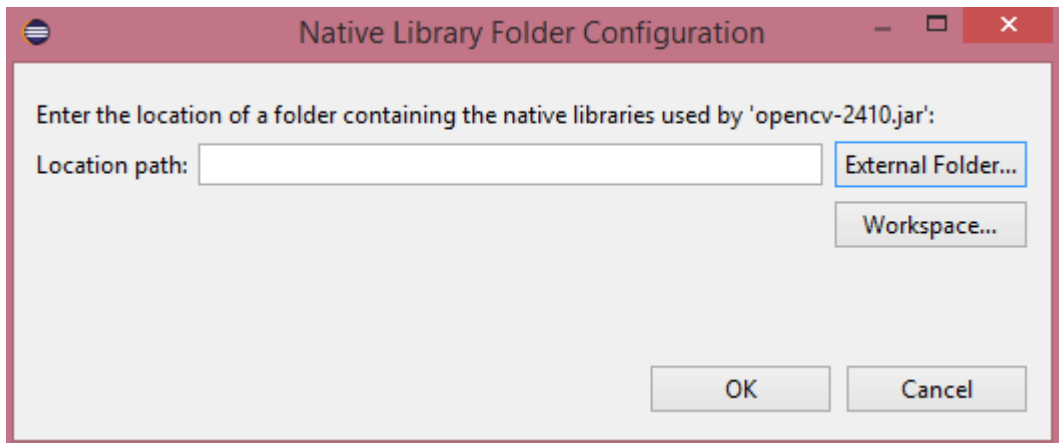
- Now select your new user library and click Add External JARs.



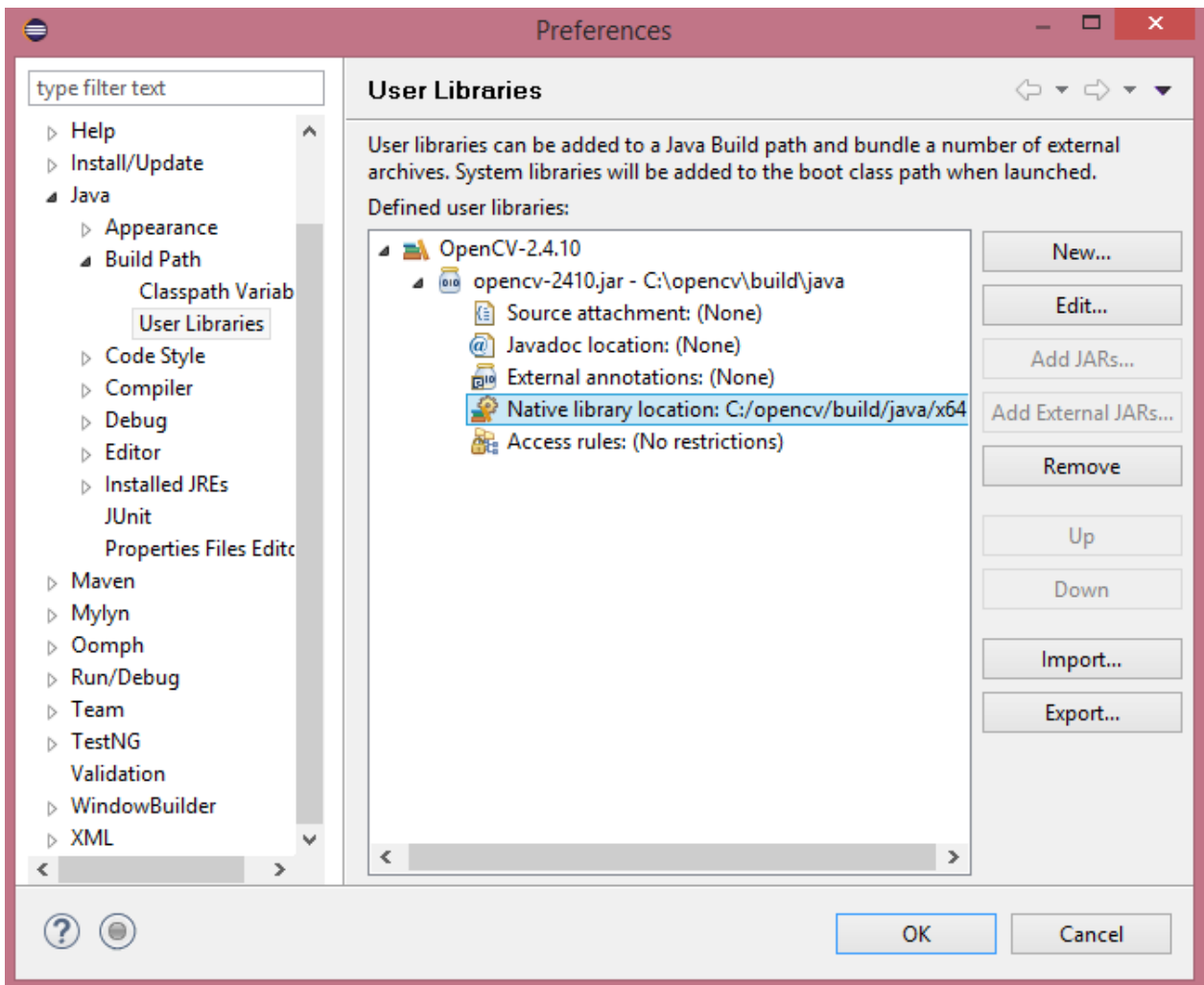
- Browse through C:\OpenCV\build\java\ and select opencv-2410.jar. After adding the jar, extend the opencv-2410.jar and select Native library location and press Edit.



- Select External Folder and browse to select the folder C:\OpenCV\build\java\x64. If you have a 32-bit system you need to select the x86 folder instead of x64.

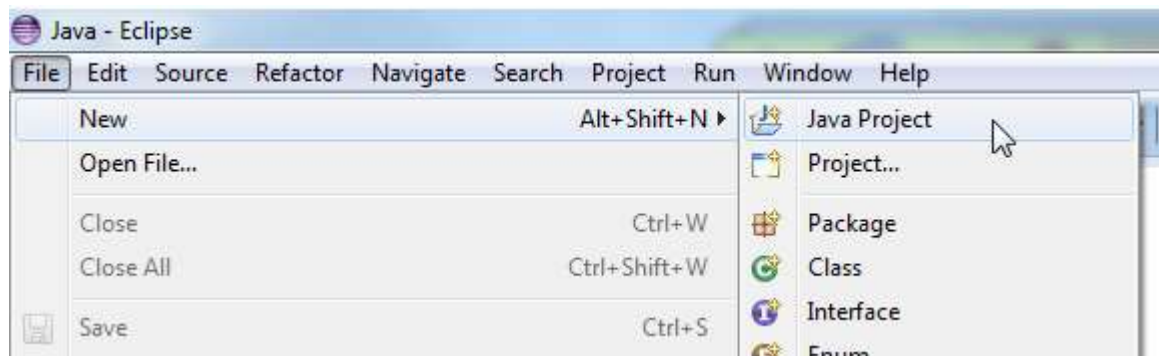


- Your user library configuration should look like this:

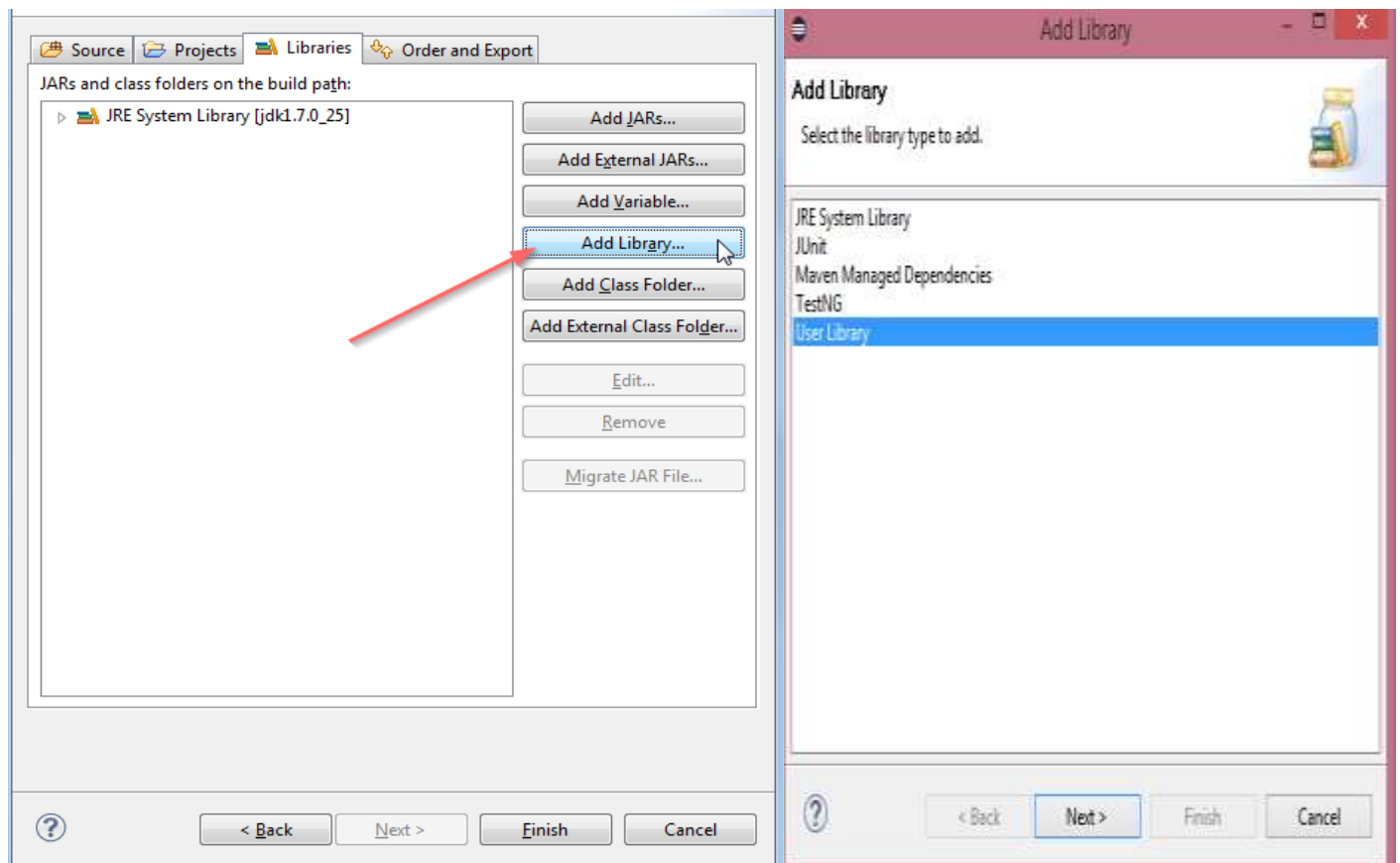


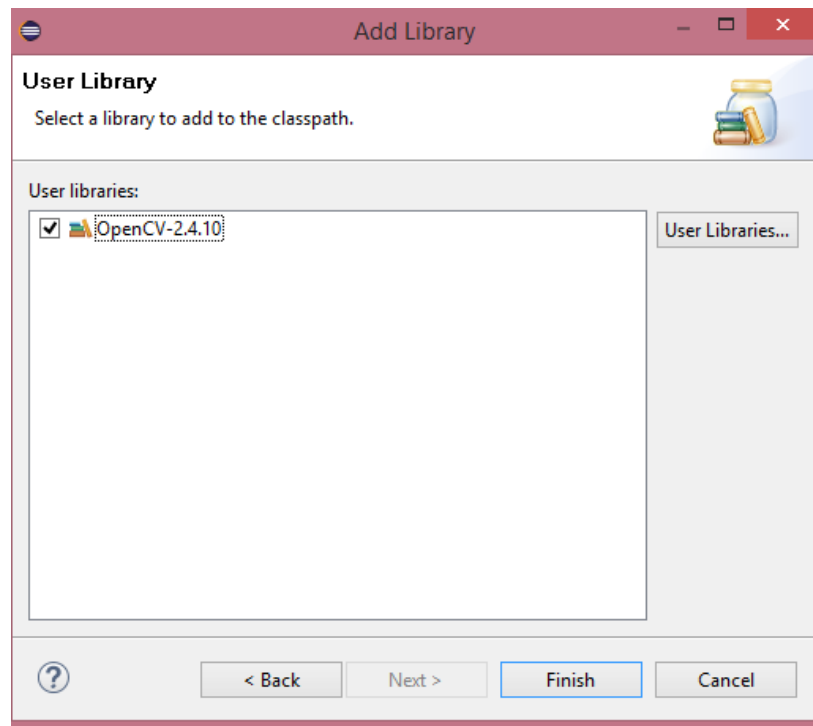
Testing the configuration on a new Java project

- Now start creating a new Java project.

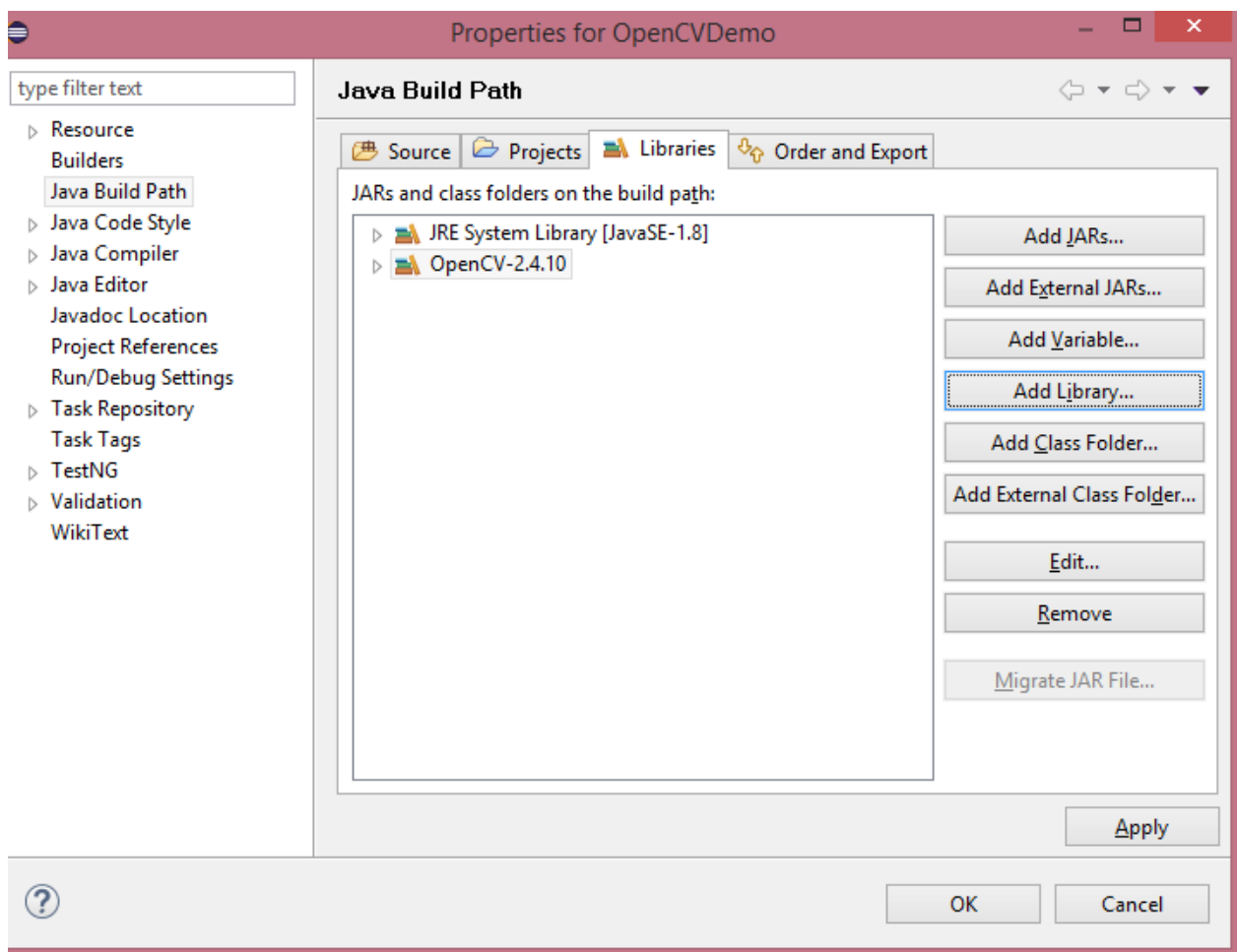


- On the Java Settings step, under Libraries tab, select Add Library... and select OpenCV-2.4.10, then click Finish.





- Libraries should look like this:

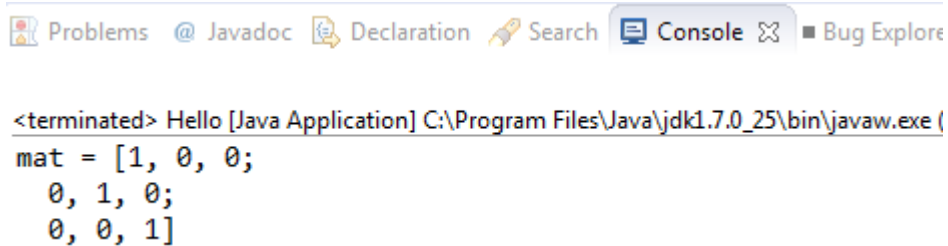


- Now you have created and configured a new Java project it is time to test it. Create a new java file. Here is a starter code for your convenience:

```
import org.opencv.core.Core;
import org.opencv.core.CvType;
import org.opencv.core.Mat;

public class Hello
{
    public static void main( String[] args )
    {
        System.loadLibrary( Core.NATIVE_LIBRARY_NAME );
        Mat mat = Mat.eye( 3, 3, CvType.CV_8UC1 );
        System.out.println( "mat = " + mat.dump() );
    }
}
```

When you run the code you should see 3x3 identity matrix as output.



The screenshot shows an IDE interface with a toolbar at the top containing icons for Problems, Javadoc, Declaration, Search, Console, and Bug Explore. The Console window is active and displays the following output:

```
<terminated> Hello [Java Application] C:\Program Files\Java\jdk1.7.0_25\bin\javaw.exe (
mat = [1, 0, 0;
      0, 1, 0;
      0, 0, 1]
```