ENVIRONMENT SETUP

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Chocolatey – Software Management Automation

Chocolatey is a Software Pakage Management Automation, with Chocolatey you can install all kinds of software, just by typing a command in your **Command promt** or **PowerShell**. It automatically download and install the software for you => The only thing you need to do is wait for the command to finish.

Install Chocolatey with PowerShell

Open Powershell then execute follow command

Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

After the command fisnished type

choco -v

It's ok if you get the version number of Choco. Let start now! ☺

SETUP JAVA

Setup Java SDK

- Download Java JDK from:
  https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

- In the Environment Variables window, under **System Variables** add the key with Name is **JAVA_HOME** and value is **C:\Program Files\Java\Jdk1.8.0_121**

- Add the path C:\Program Files\Java\jdk1.8.0_121\bin to the **PATH** system variable

- Create the CLASSPATH variable with **C:\Program Files\Java\jdk1.8.0_121\lib\tools.jar;.;** value

- After done, go to cmd run **java –version** to verify the JDK Installation

Setup Java SDK with Choco

- *choco install jdk8*

SETUP MAVEN

Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.

Setup Maven Manual

- Download Maven from: http://maven.apache.org/download.cgi

- Extract the archive, then set the environment variables: **M2_HOME**=C:\Program Files\Apache Software Foundation\apache-maven-3.3.1 **M2**=%M2_HOME%\bin **MAVEN_OPTS**=-Xms256m -Xmx512m

- After done, go to cmd run **mvn –version** to verify the Maven Installation

Setup Java SDK with Choco

- *choco install maven*

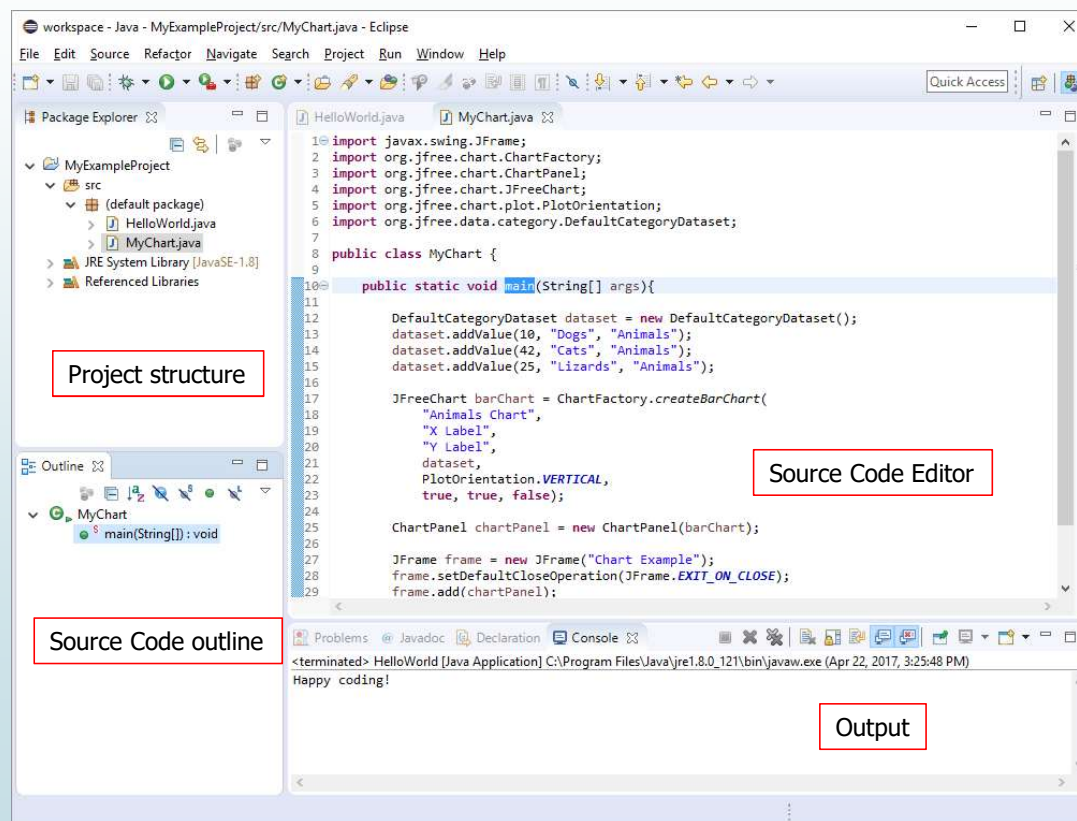# SETUP ECLIPSE

Download and Install Eclipse

➥ Download Eclipse Installer from http://www.eclipse.org/downloads

➥ Eclipse is hosted on many mirrors around the world. Please select the one closest to you and start to download the Installer

➥ We will choose **Eclipse IDE for Java Developers** package

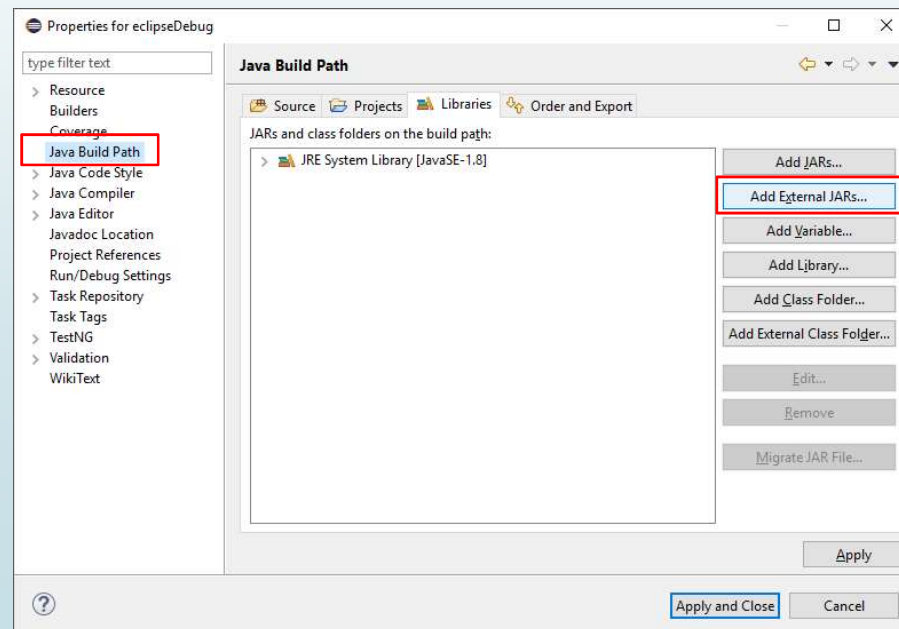**Install Eclipse with Choco**

▪ *choco install eclipse*

EXPLORE ECLIPSE'S WORK SPACE

WORKING WITH EXTERNAL LIBRARY

- Right Click on Project Root -> Properties
- On Properties dialog, select Java Build Path -> Click Add External JARs -> Browser to Jar file to import

WORKING WITH EXTERNAL LIBRARY

➡ With Maven project. Access https://mvnrepository.com/ for require library which you needed then add Dependency to **POM.XML**

➡ Example:

```
<!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>3.14.0</version>
</dependency>
```
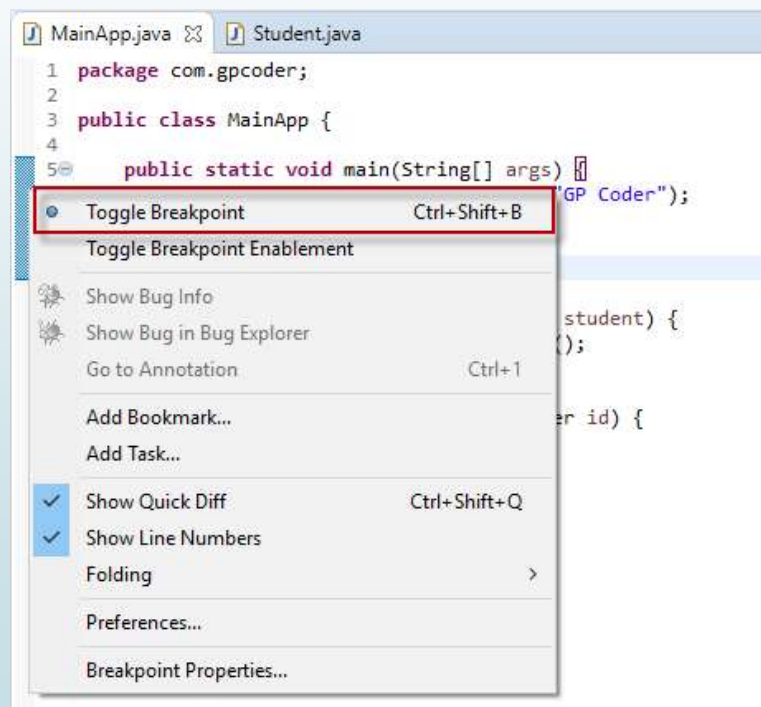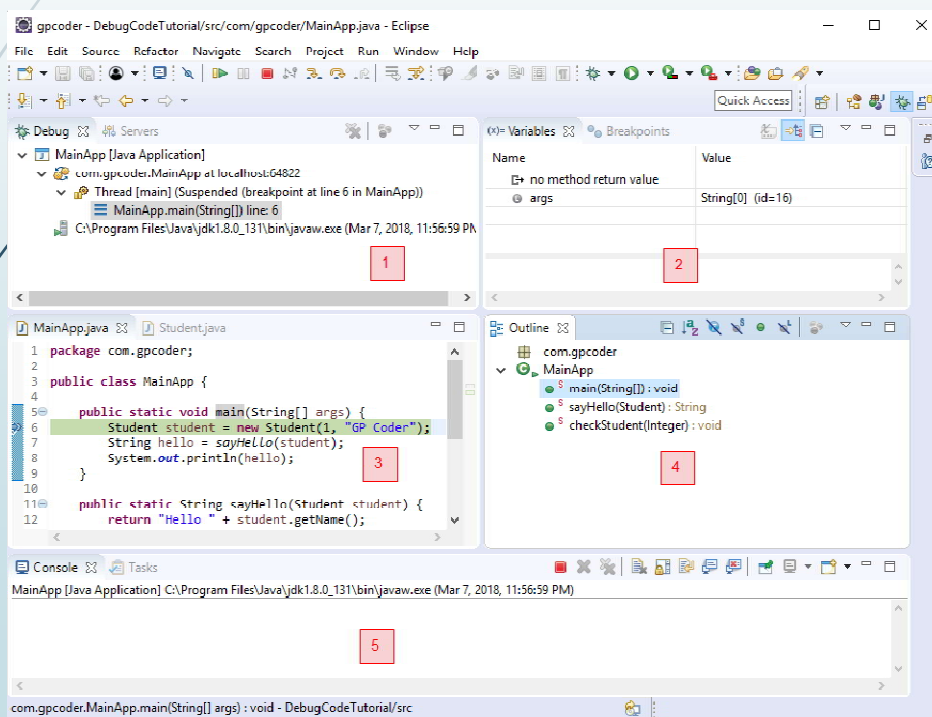
DEBUG WITH ECLIPSE

➡ Create Break Point

DEBUG WITH ECLIPSE

➡ Start Debug

➡ Debug Screen (Window -> Perspective -> Open Perspective -> Others -> Debug.)

1. Debug Window: Show class/method information

2. Variables/BreakPoints, Expression): Show value of variable or expression

3. Code View: Show current processing code line

4. Outline View: Show method outline of source code file

5. Console View: Show output of code

DEBUG WITH ECLIPSE

➡ Debug shortcut keys

- F5 (Step Into): Go to the debugging method

- F6 (Step Over): Execute the current command then go to the next command

- F7 (Step Return): Execute the current command then back to invoked command

- F8 (Resume): Execute the current command before go to the next break point

- Ctrl + F2 (Terminate): Exit debug mode

- Ctrl + Shift + B: Add/Remove break point

- Ctrl + Shift + I: Open the popup to display variable information.

ADD CUCUMBER ECLIPSE PLUGIN

Cucumber Eclipse Plugin is a program help you write the feature file for the cucumber test.

To add this plugin to Eclipse, you need to do following steps

1. Launch the Eclipse IDE and from Help menu, click "Install New Software"

2. You will see a dialog window, click "Add" button.

3. Type name as you wish, let's take "Cucumber" and type "**http://cucumber.github.com/cucumber-eclipse/update-site**" as location. Click OK.