

Download and Install Java JDK

• Go to:



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

 Click on one of the download links shown in the image based on your operating system.

Linux macOS Windows		
Product/file description	File size	Download
x64 Compressed Archive	170.64 MB	https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.zip (sha256 ☑)
x64 Installer	151.99 MB	https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.exe (sha256 ☑)
x64 MSI Installer	150.88 MB	https://download.oracle.com/java/17/latest/jdk-17_windows-x64_bin.msi (sha256 ☑)

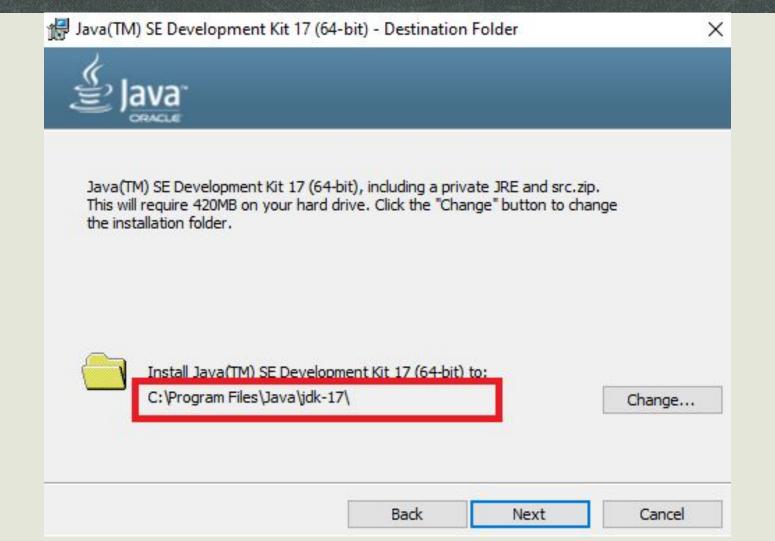
Download and Install Java JDK





Install JDK by executing the downloaded file and <u>leave the destination</u>
 <u>folder as default</u> (if not possible, be sure to take note character by character of the destination folder).

Download and Install Java JDK



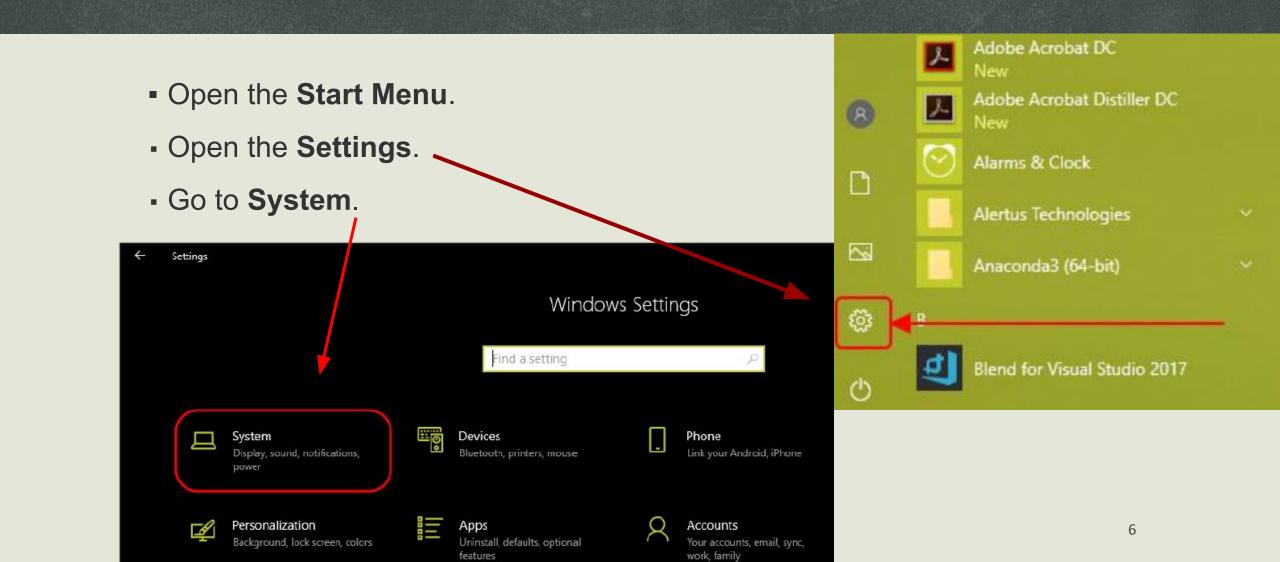


Java Path Configuration (for Windows 7 / 8)

- Go to your Control Panel.
- Click on System.
- Click on Advanced System Settings.
- Go to Slide #9.



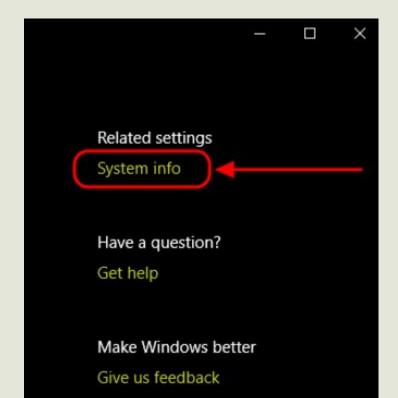
Java Path Configuration (for Windows 10)

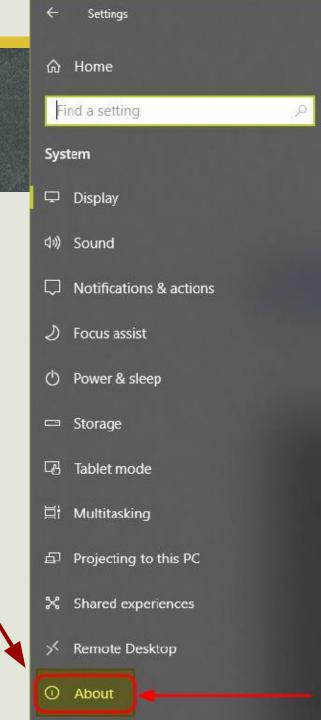


Java Path Configuration (for Windows 10)

Click on About on the left hand side menu.

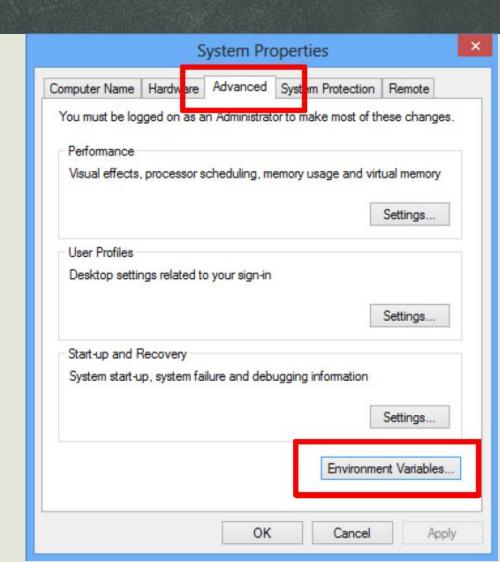
- Click on System Info under Related Settings.





Java Path Configuration (for <a>Mindows)

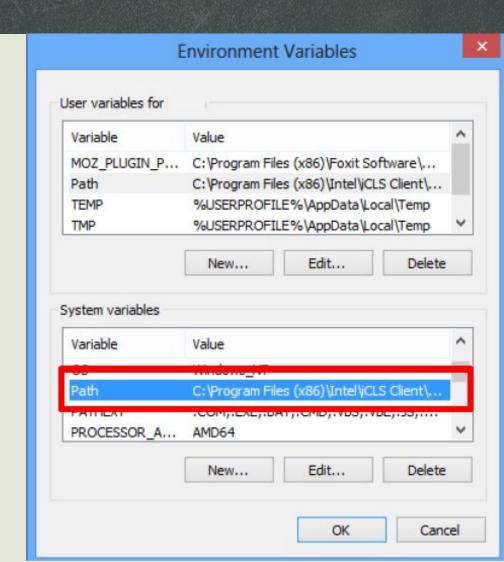
- Select the Advanced tab.
- Click on Environment Variables.



Java Path Configuration (for <a>I Windows)

 On System Variables, find PATH and double-click on it.

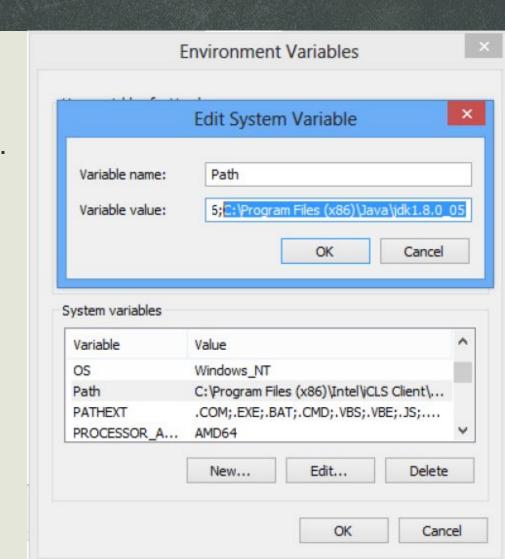
 If you do not have the item PATH, you may select to add a NEW variable and insert PATH as its name.



Java Path Configuration (for 7 / 8 Windows)

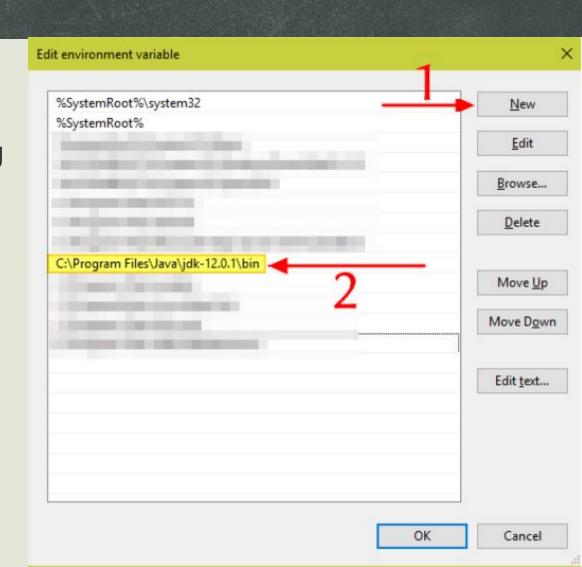
 Add the Java location at the end of the PATH followed by \bin (as defined during installation).

 Also, add this same location for the PATH on User Variables (just above System Variables)



Java Path Configuration (for all Windows)

Add the Java location at followed by \bin
 (as defined during installation) by clicking
 on New then entering the information.



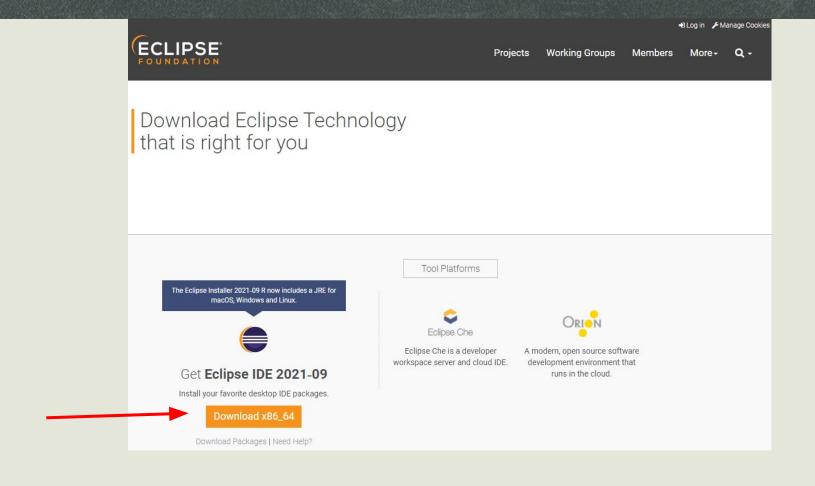
Download and Setup Eclipse

Available at https://www.eclipse.org/downloads/

• There are several versions of Eclipse; select the Standard version.



Download and Setup Eclipse



Download the latest version. It might not be the one in the image above.

Install Eclipse

- Eclipse does not have an installation procedure.
- Simply extract the zip file in a directory where your programs are stored, e.g. C:\Program Files.
- This creates a directory named eclipse.
- The executable "eclipse.exe" file is in this directory.
- It may be helpful to create a shortcut to this executable on your desktop.

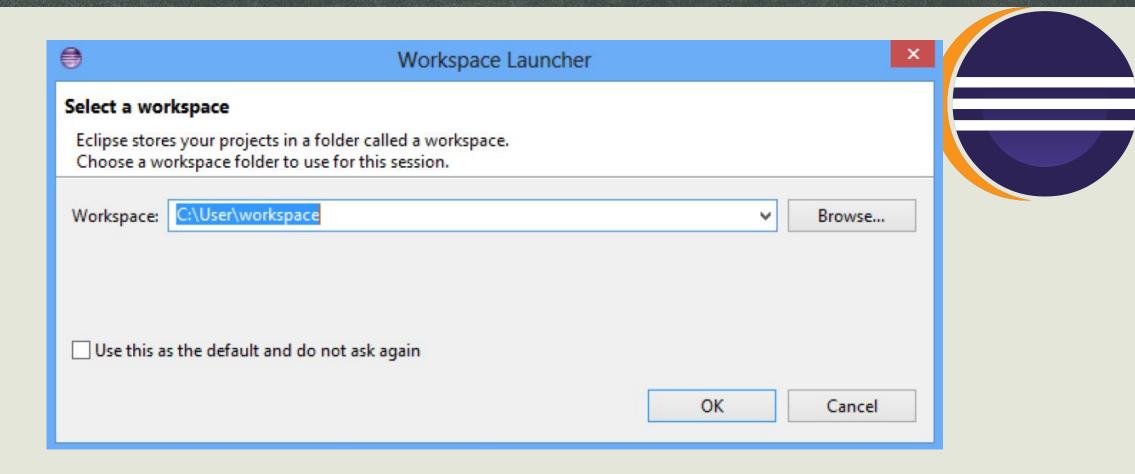


Initializing Eclipse

- Eclipse stores all its files in a directory called "workspace".
- When running for the first time, Eclipse asks for a workspace location.
- You can use the default location (Recommended)
- If not possible, change the location of your workspace. Make sure you remember it.

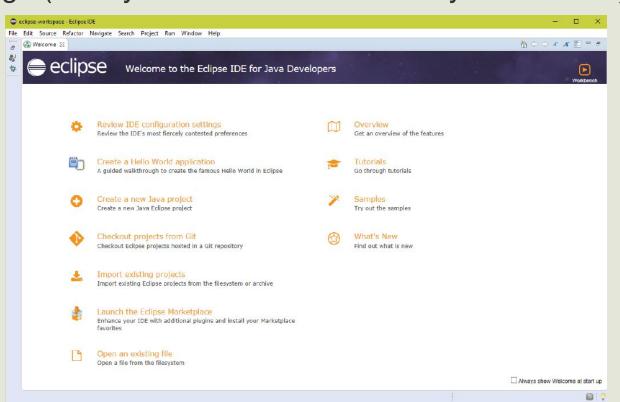


Initializing Eclipse



Using Eclipse for the first time

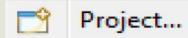
After defining the workspace location, you should see the Eclipse
 Welcome page (Note your welcome screen may be different).

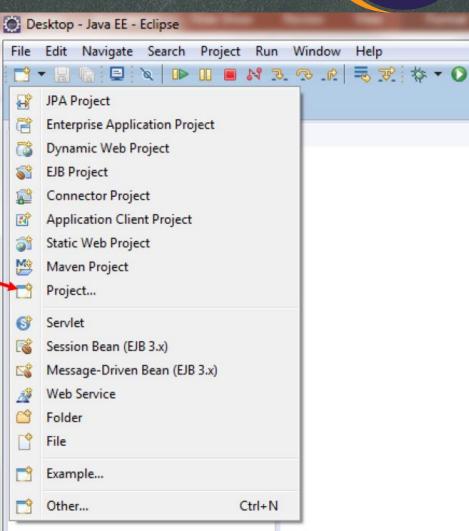






Click on the project icon





The New Project window will appear.

Select Java Project.

Click on Next at the bottom of the window.



Select a wizard

Wizards:

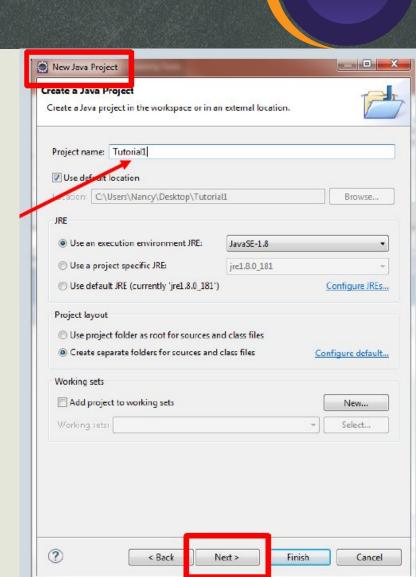
type filter text

- Java Project
- Plug-in Project
- Eclipse Modeling Framework
- D 🗁 EJB
- D 🗁 Java
- D 🗁 Java EE
- JavaScript
- D > JAXB
- D DPA
- Maven

The New Java Project window will appear.

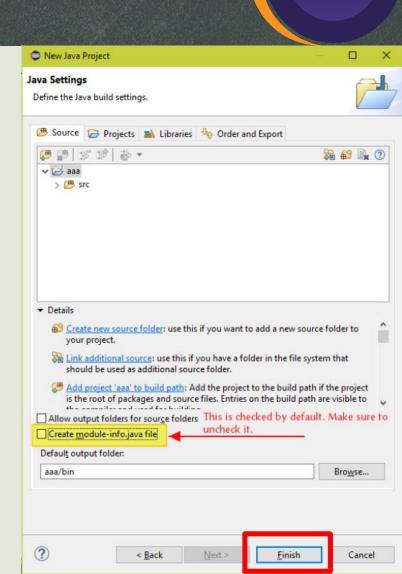
Enter a name for your project.

Click on the Next button.

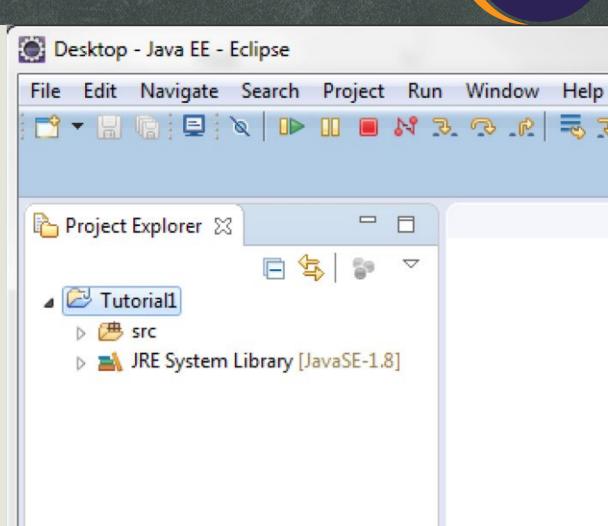


 Uncheck Create module-info.java file if it is checked by default.

- Click on Finish.



 You will see your project folder (in this example Tutorial 1) created with a folder to hold your .java files (src).



Create a .java file

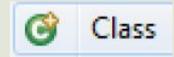


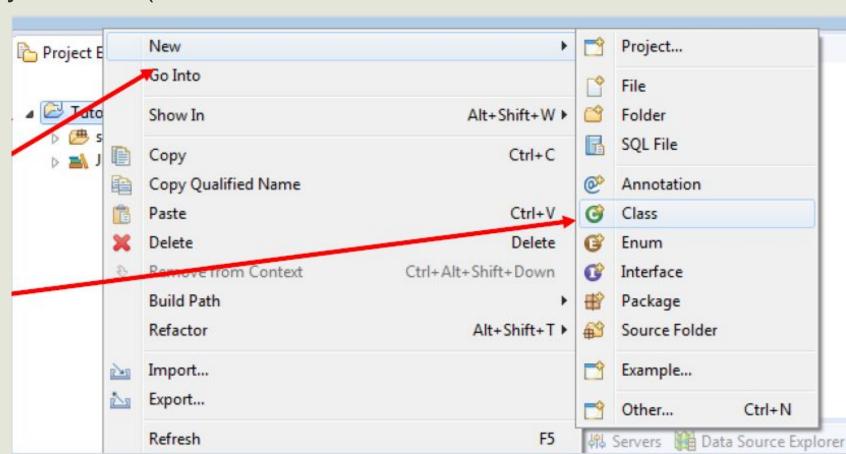
Right click on the project name (in this

case Tutorial 1)

Click on New

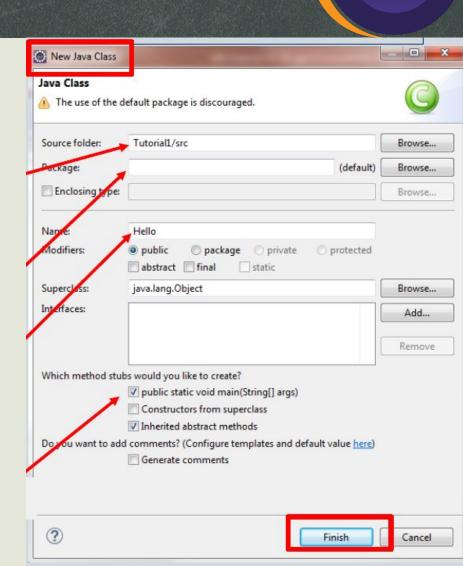
Click on Class





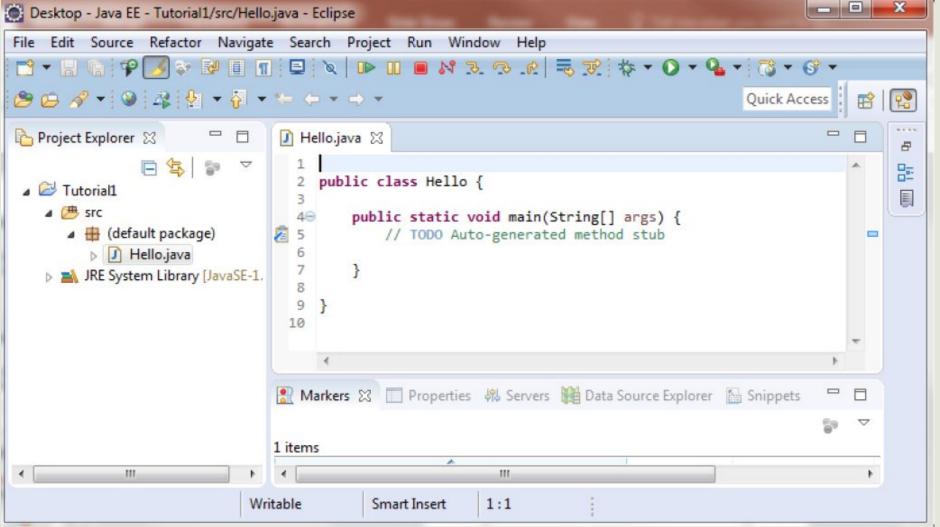
Create a .java file

- The New Java Class window will appear.
- Notice that your .java file will be saved in the src folder of the project you created.
- Make sure that Package textbook is empty.
- Enter the name of the .java file in this example
 Hello. (Note: no spaces allowed in a file name.)
- Select public static void main(String[] args)
- Click on Finish.



Ready to enter Java statements





Type a Java statement



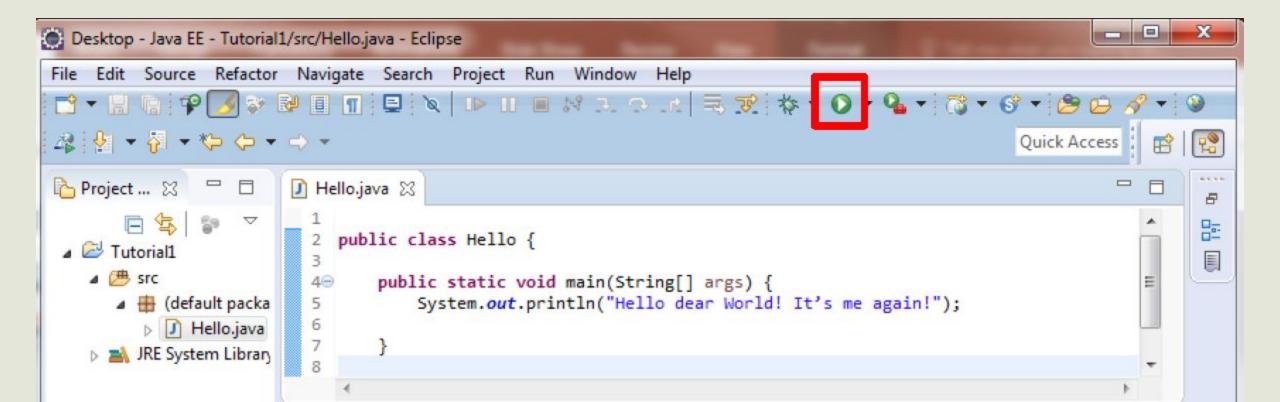
Type the statement in red.

```
public class Hello
 public static void main(String[] args)
     System.out.println("Hello dear World! It's me again!");
```

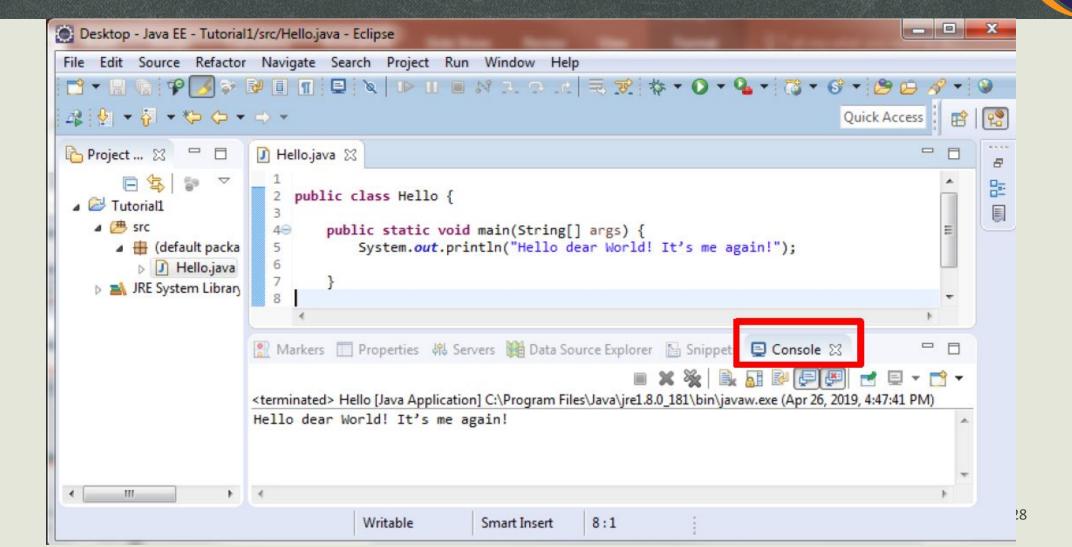
Compile & Run a Java program

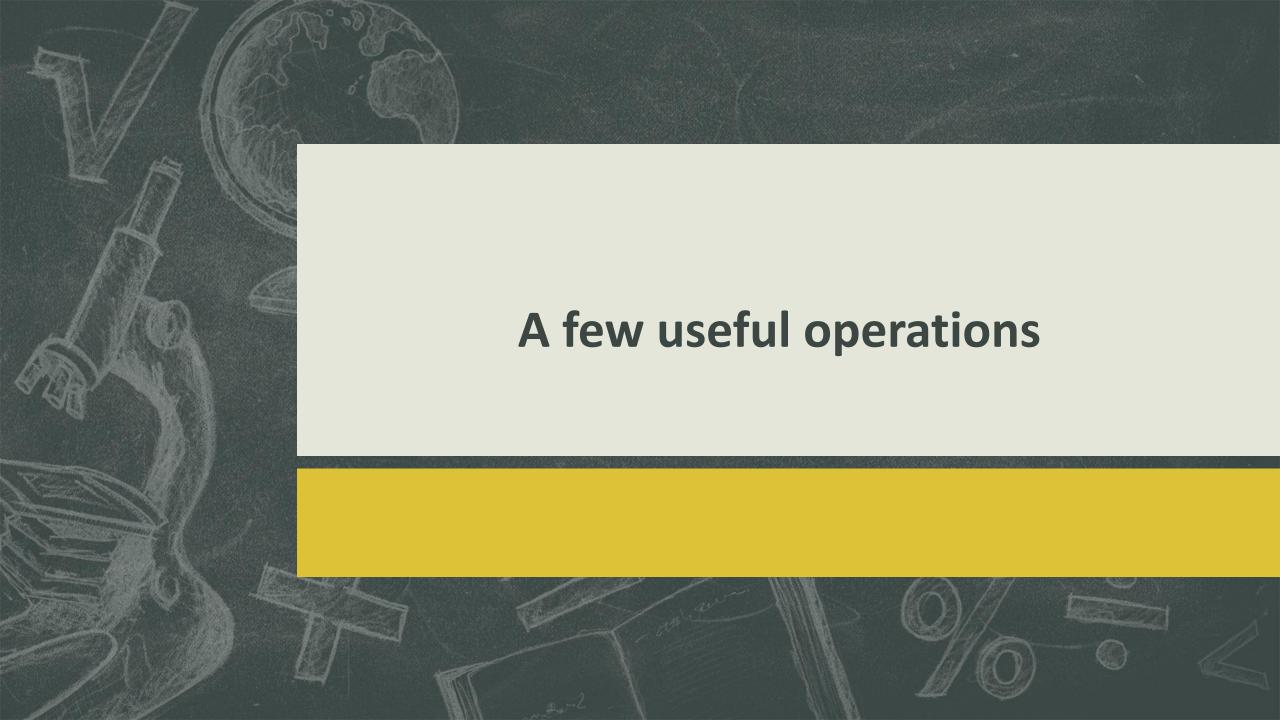


Save your program & click on the Run Icon.



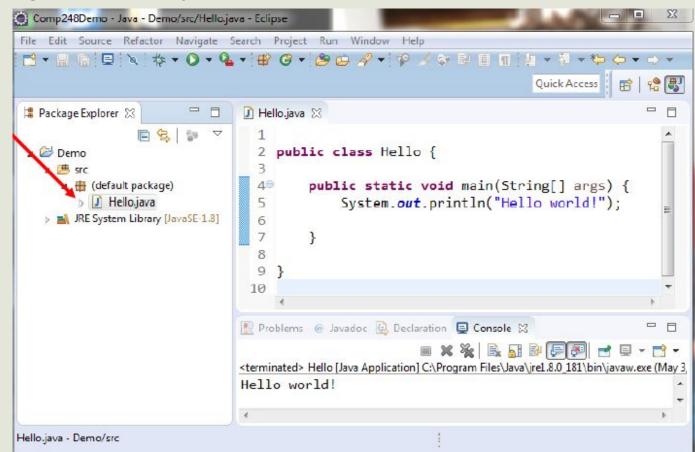
Output in Console window





Locating your source file (.java)

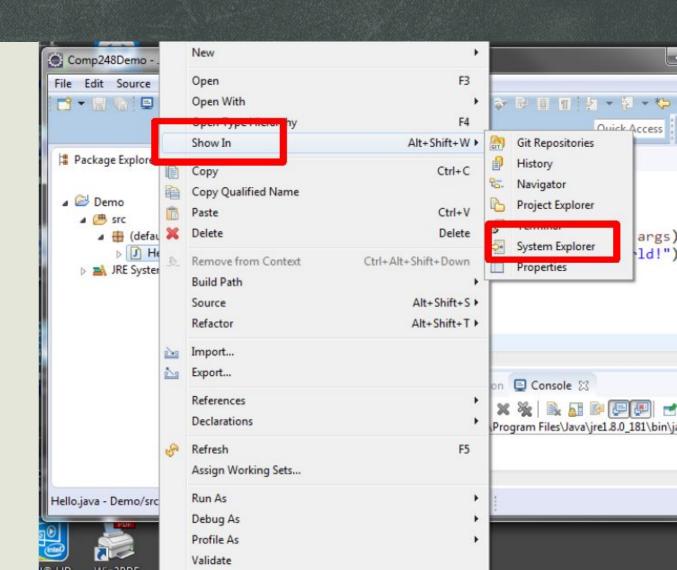
- It is time to submit your lab or assignment but you don't know
 - where it is saved.
- Right click on the .java file you want to locate (in this example Hello.java file).



Locating your source file (.java)

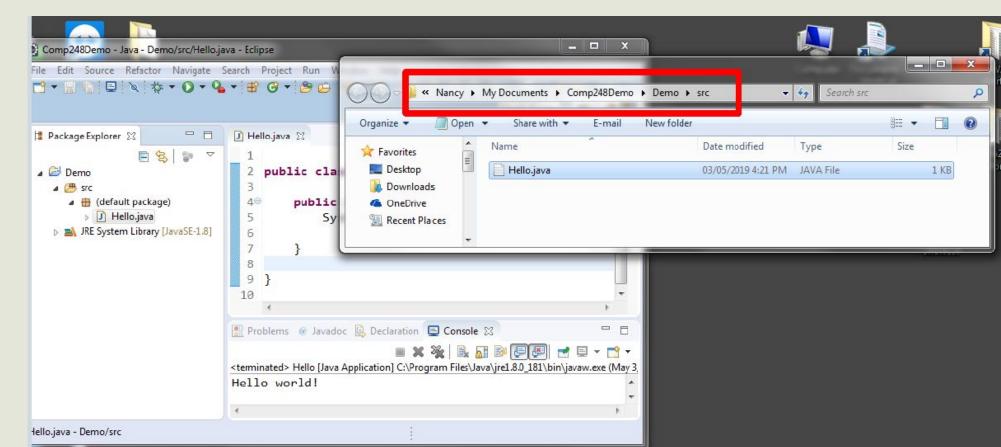
Next, click on Show In.

Select System Explorer.



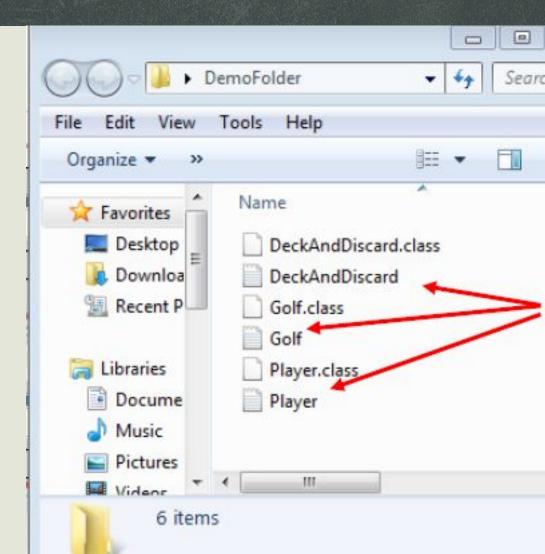
Locating your source file (.java)

You will see the full path to your file.



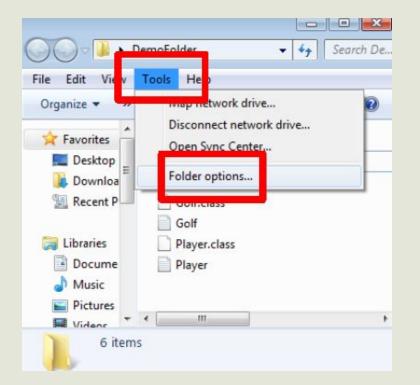
Enable showing of file extensions in Windows

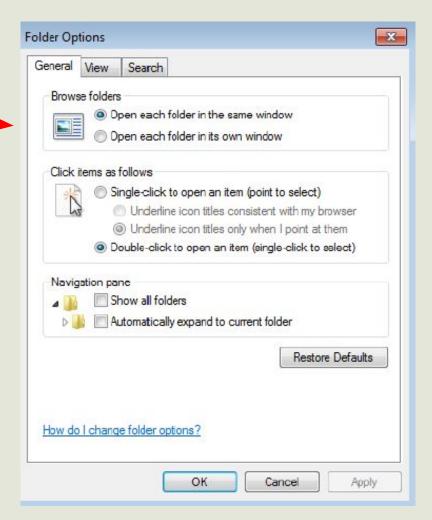
- When submitting files (labs or assignments), be sure to select .java files (and not the .class file).
- Sometimes the extensions is not visible on your computer.
- If that is the case, here is how to turn on the displaying of extensions.



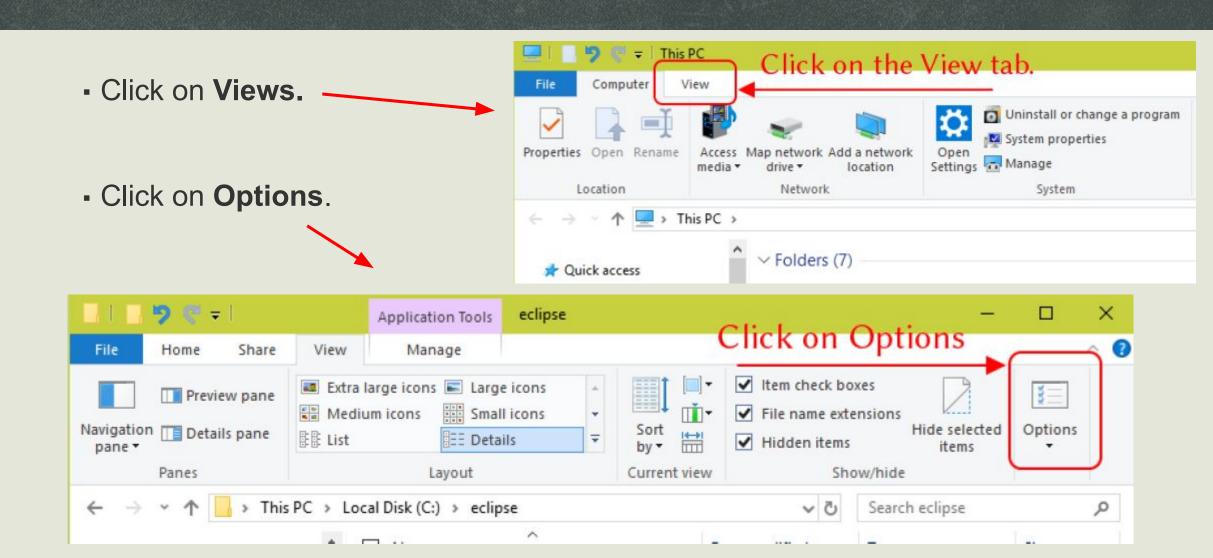
Enable showing of file extensions in Windows 7 / 8

- Click on Tools and select Folder Options.
- The following window will appear.
- Go to slide #37



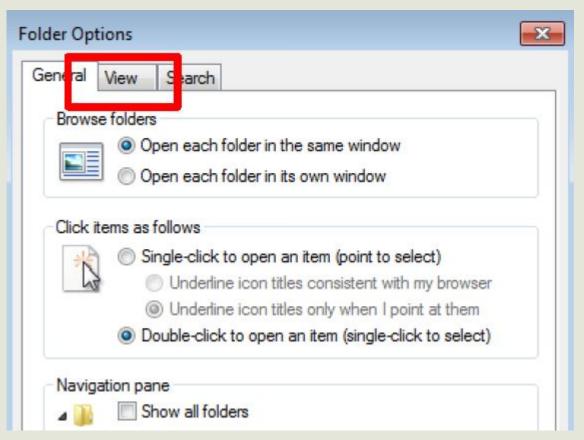


Enable showing of file extensions in Windows 10



Enable showing of file extensions in all Windows

Click on Views tab.



Enable showing of file extensions in **all** Windows

- The following window will appear.
- Make sure that the "Hide extensions for known types" is unchecked (in this screen capture it is checked).

