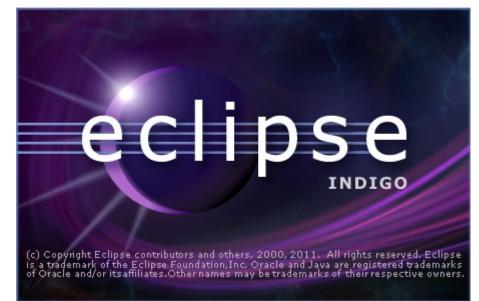
### What is Eclipse?

- Eclipse
  - Integrated Development Environment (IDE) that contains an editor, compiler, and debugger among other things
  - Requires a Java Runtime Environment
  - Can develop Java, C, C++, ... programs

#### **Workspace Launcher**



ŧ	Workspace Launcher	- ×
Select a wor	rkspace	
	stores your projects in a folder called a workspac rkspace folder to use for this session.	ce.
<u>W</u> orkspace:	/home/ryand/workspace	<b>▼</b> <u>B</u> rowse
□ <u>U</u> se this a	as the default and do not ask again OK	Cancel

#### Select the perspective for coding

Make sure the perspective is Java

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# Changing your perspective for coding

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Change your perspective by clicking the icon above. Then select Other and finally the perspective you want

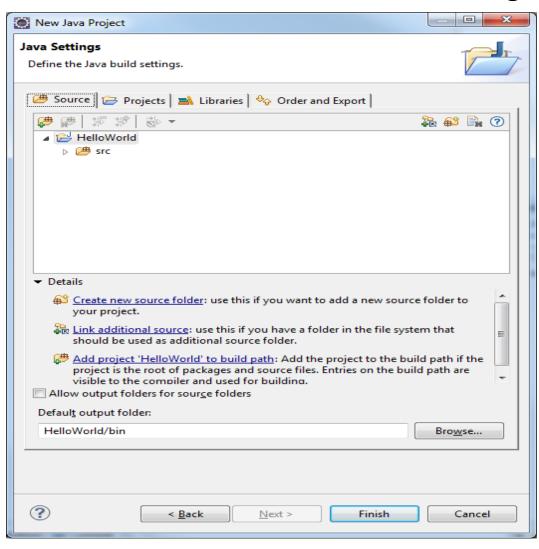
#### Create a new HelloWorld project

File  $\rightarrow$  New  $\rightarrow$  Java Project

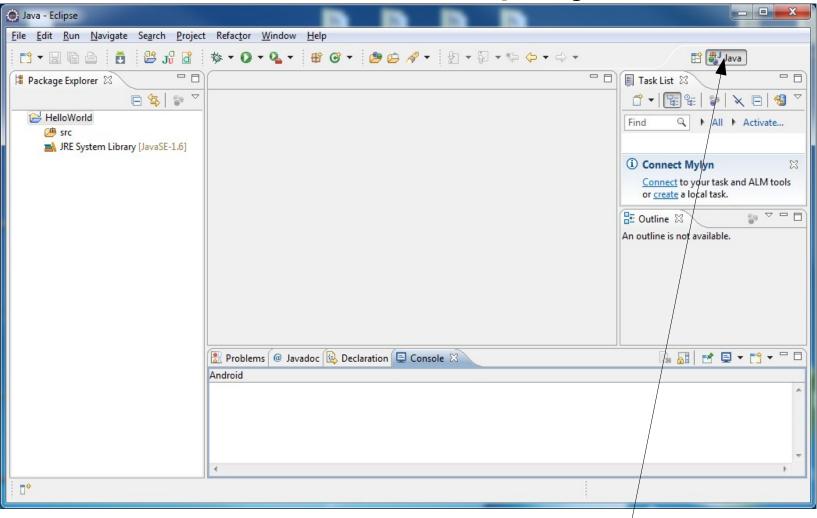
New Java Project	
Create a Java Project Create a Java project in the workspace or in an external location.	
Project name:       HelloWorld         Use default location	Type in the project name HelloWorld
<ul> <li>Use a project specific JRE: jre6</li> <li>Use default JRE (currently 'jre6')</li> <li>Project layout</li> <li>Use project folder as root for sources and class files</li> <li>Configure default</li> </ul>	
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#### After clicking the Next button

#### You can define the build settings

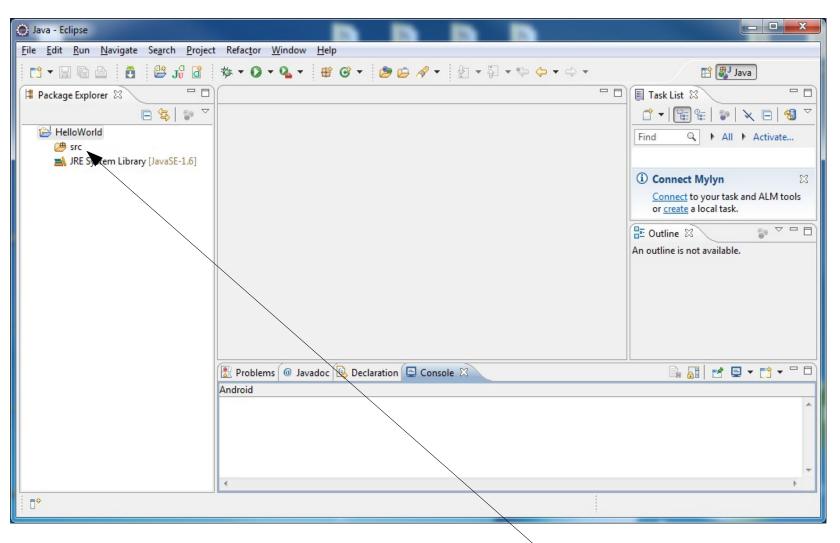


#### A HelloWorld project



#### Make sure your perspective is Java

#### What's in a new HelloWorld project?



No source file exist yet

#### Create HelloWorld.java?

```
public class HelloWorld
{
   public static void main (String[] args)
   {
    System.out.println ("Hello World");
   }
}
```

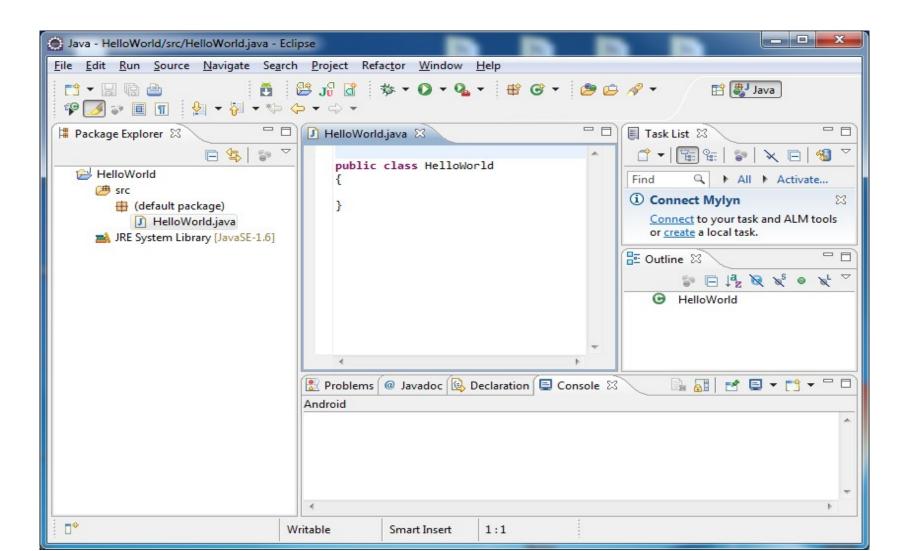
#### Right click on src, then New->Class

New Java Class		
<b>Java Class</b> Create a new Java	class.	C
Source fol <u>d</u> er:	HelloWorld/src	Br <u>o</u> wse
Pac <u>k</u> age:	(default)	Bro <u>w</u> se
Enclosing type:		Bro <u>w</u> se
Na <u>m</u> e: Modifiers:	<ul> <li>● public</li> <li>● default</li> <li>● private</li> <li>● protected</li> <li>■ abstract</li> <li>● final</li> <li>■ static</li> </ul>	]
<u>Superclass:</u>	java.lang.Object	Brows <u>e</u>
Interfaces:		<u>A</u> dd
		<u>R</u> emove
Which method stul	bs would you like to create? public static void main(String[] args) Constructors from superclass Inherited abstract methods	
Do you want to add	d comments? (Configure templates and default value <u>here</u> ) <u>G</u> enerate comments	
?		Cancel

#### For now, type HelloWorld in Name and leave Package blank

New Java Class		
Java Class	lefault package is discouraged.	O
Source fol <u>d</u> er:	HelloWorld/src	Br <u>o</u> wse
Pac <u>k</u> age:	(default)	Browse
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<u>Superclass:</u>	java.lang.Object	Brows <u>e</u>
Interfaces:		Add
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	bs would you like to create? public static <u>v</u> oid main(String[] args) <u>C</u> onstructors from superclass In <u>h</u> erited abstract methods comments? (Configure templates and default value <u>here</u> ) <u>G</u> enerate comments	
?	<u> </u>	Cancel

## Finish typing in the HelloWorld program



#### **Completed Program**

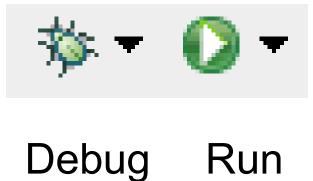
💮 Java - HelloWorld/src/HelloWorld.java - Eclipse	
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#### How to run your program?

#### Make sure the program is saved Right click on the HelloWorld project icon and Run->Java Application

🔘 Java - HelloWorld/src/HelloWorld.java - Ecli	ose de la la la la la	
<u>File Edit Run Source Refactor Navigat</u>	e Se <u>a</u> rch <u>P</u> roject <u>W</u> indow <u>H</u> elp	
□1 • □     □ <t< td=""><td>i 😫 J} G ☆ • Q • Q • 🖶 • B ⊕ - ⊘ •</td><td>🍄 ⊿ 💝 🔲 🔳 😰 💱 Java</td></t<>	i 😫 J} G ☆ • Q • Q • 🖶 • B ⊕ - ⊘ •	🍄 ⊿ 💝 🔲 🔳 😰 💱 Java
<ul> <li>Package Explorer X</li> <li>HelloWorld</li> <li>Grad Stresson</li> <li>HelloWorld, ava</li> <li>HelloWorld, java</li> <li>JRE System Library [JavaSE-1.6]</li> </ul>	<pre> HelloWorld.java  public class HelloWorld {     public static void main (String[] args)     {         System.out.println ("Hello World");      }     } }  Problems @ Javadoc @ Declaration   Console   classed <terminated> HelloWorld (2) [Java Application] C:\Program Files\Java\jre6\b Hello World </terminated></pre>	Task List X         Find         Connect Mylyn         Sconnect to your task and ALM tools or create a local task.         Task List X         Task List X
< <u> </u>	4	• • • • • • • • • • • • • • • • • • •
Helloworld		1

#### Run versus Debug



# Printing

- Windows | Preferences
- General | Appearance | Colors and Fonts
- Make any necessary changes

• Print doubled sided!