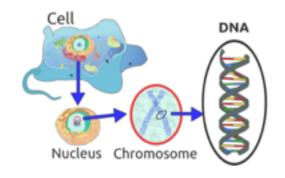
CSE 201 Java Programming I

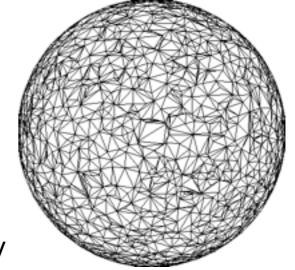
Smart Coding School

website: http://www.smartcodingschool.com

Computer Science



Computational Biology



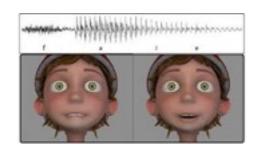
Computational Geometry



Computational Finance

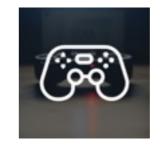


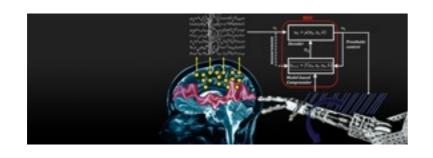
Computational Geography



Computational Animation







Computational Medicine

Java Programming Language

- 1. Object-oriented programming language
- 2. Concurrency
- 3. Cross-platform: Write once Run anywhere



Java 8 SDK



Download Link:
http://www.oracle.com/
technetwork/java/javase/
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Java IDE (integrated development environment)



Download Link: (Mars)
http://www.eclipse.org/
downloads/packages/eclipse-ide-java-developers/mars2



Eclipse IDE for Java Developers

Package Description

The essential tools for any Java developer, including a Java IDE, a CVS client, Git client, XM Editor, Mylyn, Maven integration and WindowBuilder

This package includes:

- · Code Recommenders Developer Tools
- · Eclipse Git Team Provider
- Eclipse Java Development Tools
- · Maven Integration for Eclipse
- Mylyn Task List
- WindowBuilder Core
- Eclipse XML Editors and Tools
- Detailed features list

Download Links

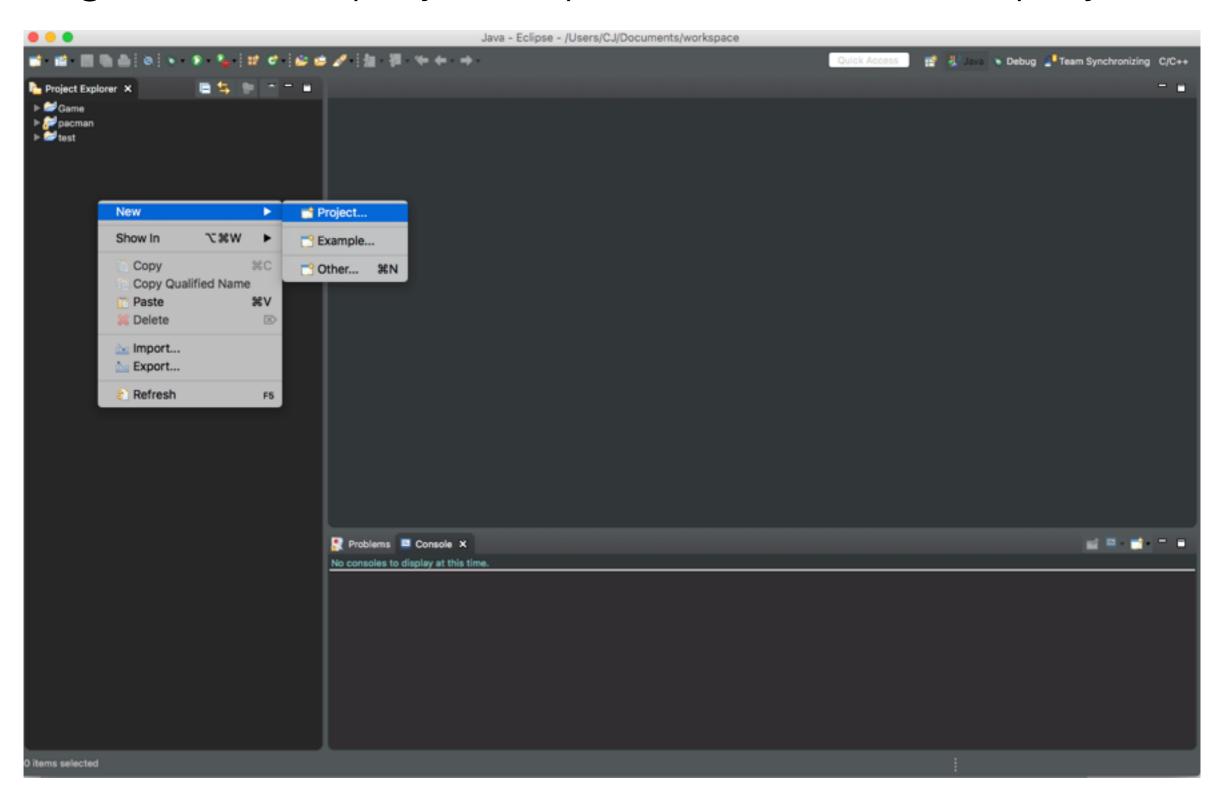
Windows 32-bit
Windows 64-bit
Mac OS X (Cocoa) 32-bit
Mac OS X (Cocoa) 64-bit
Linux 32-bit
Linux 64-bit

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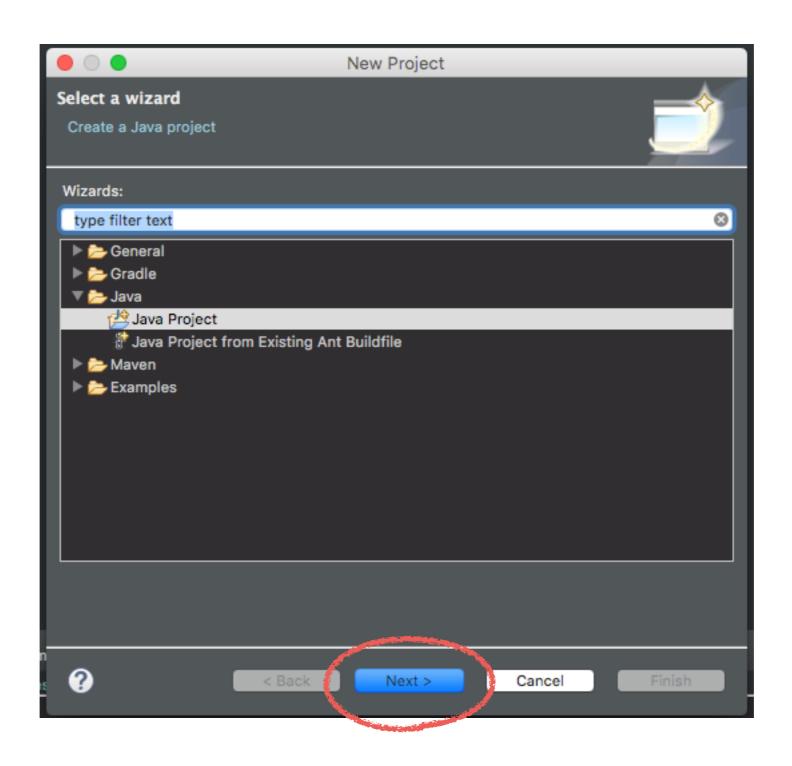
Checksums...

Bugzilla

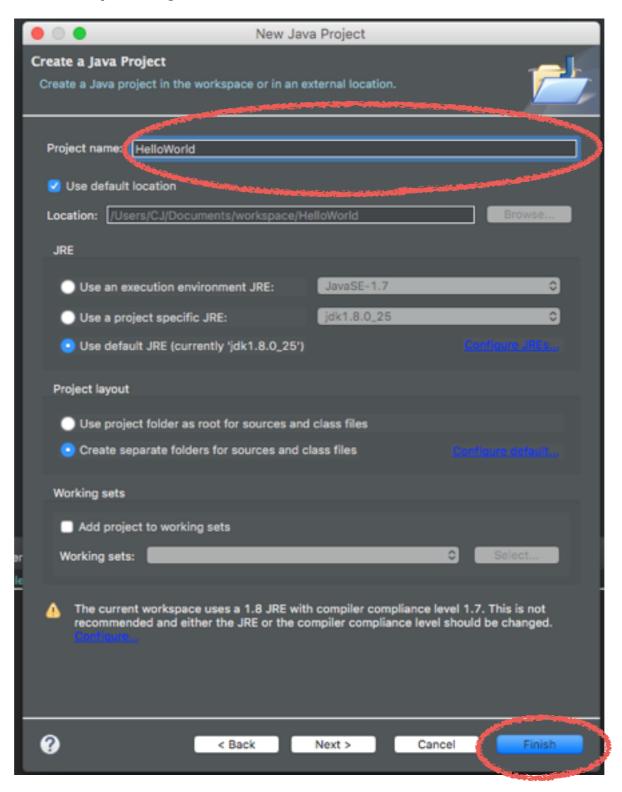
Right click the project explorer, select new -> project



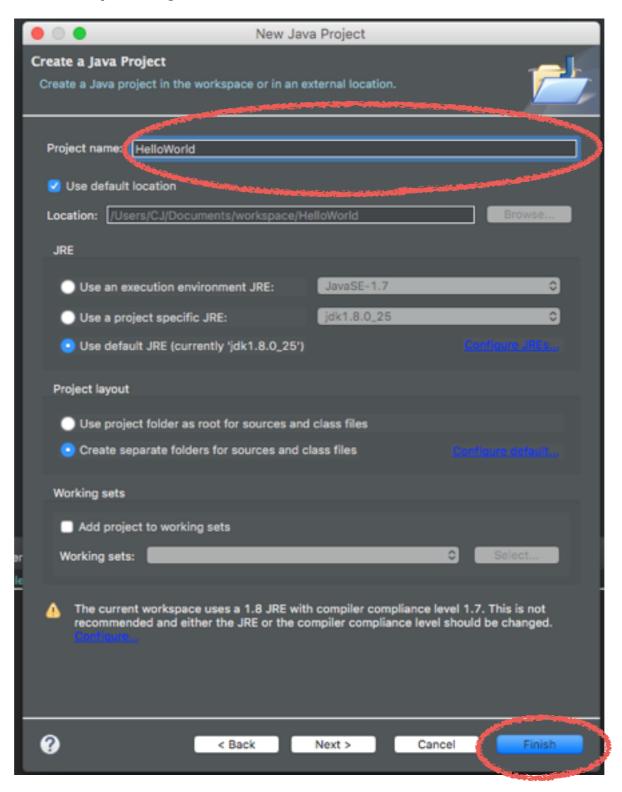
click Next>



Enter the project name and click Finish

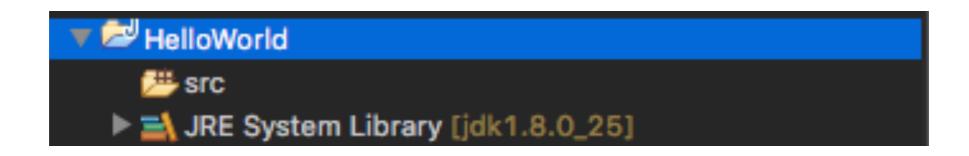


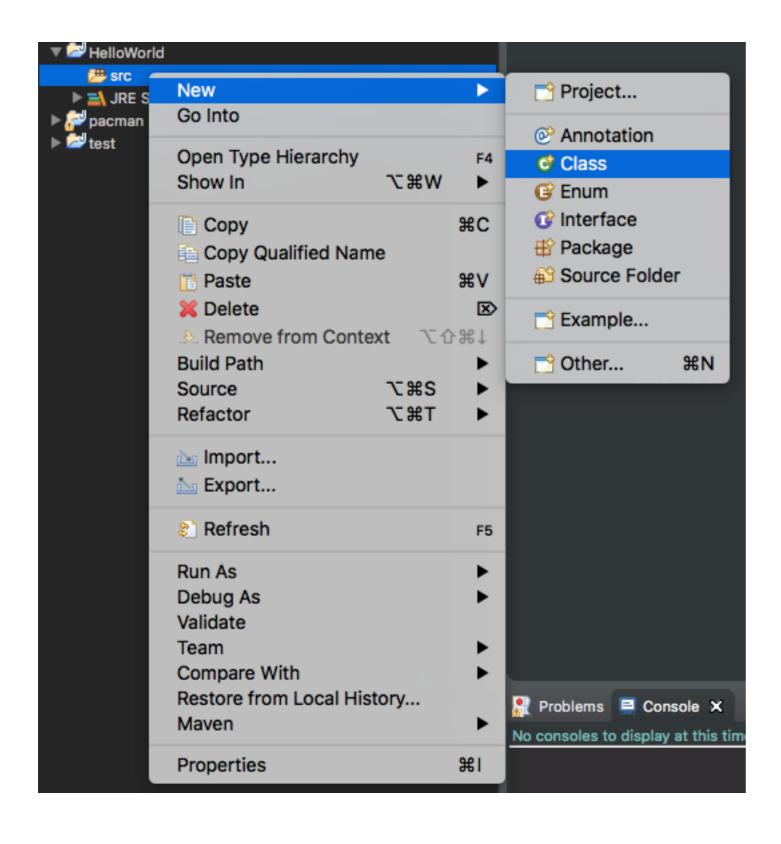
Enter the project name and click Finish



Find your project in the project explorer on the left side

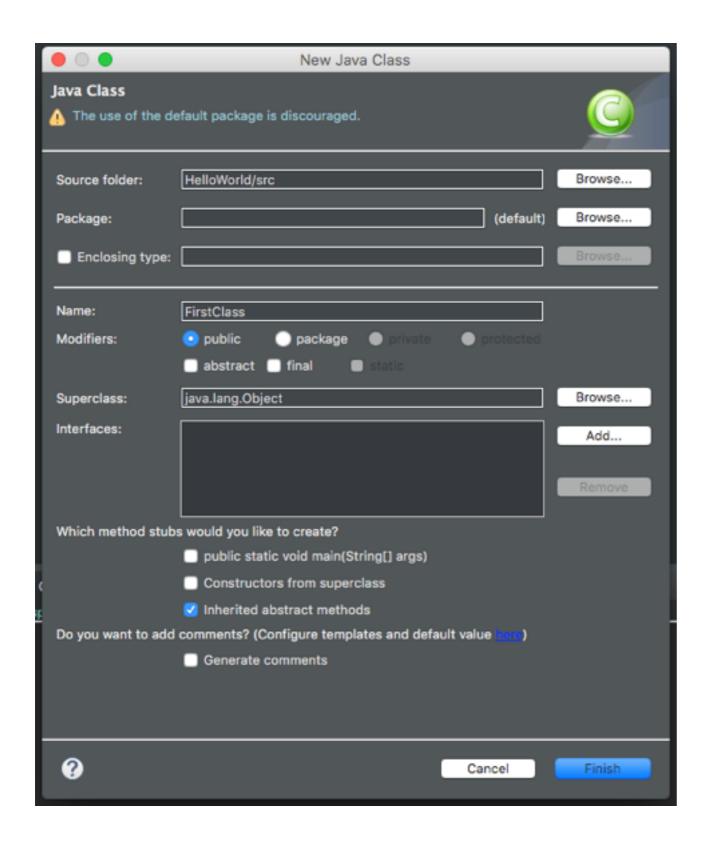
Click the arrow sign to expand the project folder





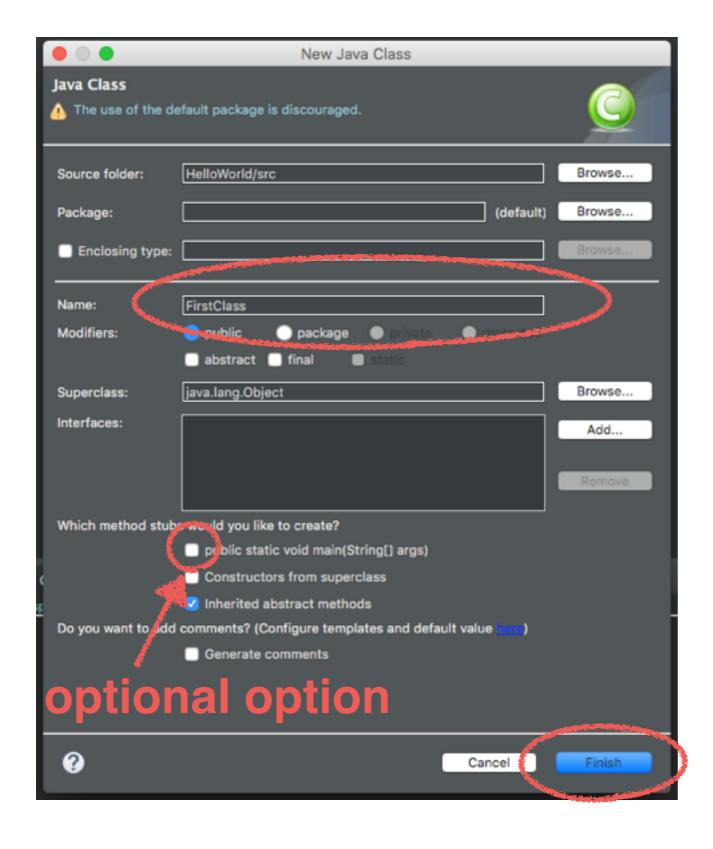
Any code goes to src folder

Right click src folder select new -> class



Fill in the Name for class with Name Convention Rule (Each word's first letter is Capitalized)

then click Finish



Fill in the Name for class with Name Convention Rule (Each word's first letter is Capitalized)

then click Finish

This is class name

```
FirstClass.java X
  public class FirstClass {
     public static void main(String[] args) {
9
```

This is a method, and we should write code in the method

```
public static void main(String[] args) {
```

The program runs from the first line of main method

When you try to execute a java code using "java" command, the runtime will load the public class that you are trying to execute and then call the main method defined in the class. The runtime knows that "main" is the method to look for as it is designed that way.

```
public static void main(String[] args) {
    Everyone can see me
}
```

```
public static void main(String[] args) {
          Everyone can call me
          without creating an object
```

```
public static void main(String[] args) {
       The argument I can accept
public static void main(String[] args) {
         The type of argument
```

Print statement will allow you to print output to console and debug your code

Each statement ends with a semicolon

System.out.print(); System.out.println();

Example:

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

```
System.out.print("Hello World");
System.out.print("Hello World");
```

```
System.out.println("Hello World");
System.out.println("Hello World");
```

```
System.out.print("Hello World");
System.out.print("Hello World");
```

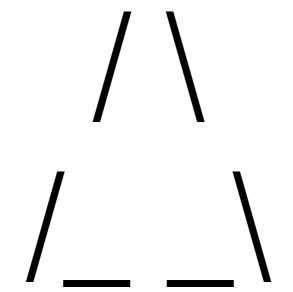
```
System.out.println("Hello World");
System.out.println("Hello World");
```

Special Cases

```
"\n" stands for a new line
"\t" stands for a tab
"\\" stands for \
"\"" stands for \
"\"" stands for "
"\"" stands for "
```

System.out.print("HelloWorld\n");

System.out.println("HelloWorld");



```
public static void main(String[] args) {
    System.out.println(" /\\");
    System.out.println("/__\\");
}
```

```
public static void main(String[] args) {
   int a = 10;
   System.out.println(a);
}
```

Output will be 10

```
public static void main(String[] args) {
   int a = 10;
   int b = 5;
   System.out.println(a + b);
}
```

Output will be 15

```
public static void main(String[] args) {
   int a = 10;
   int b = 5;
   int s = "HelloWorld";
    System.out.println(a + s + b);
}
```

Output will be 10HelloWorld5

Anything + with a String, the result will be String For example:

System.out.println(5 + "1");

Anything + with a String, the result will be String For example:

System.out.println(1 + 5 + "1");

Output will be: "61"