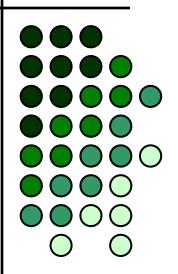
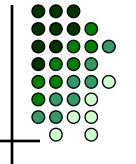
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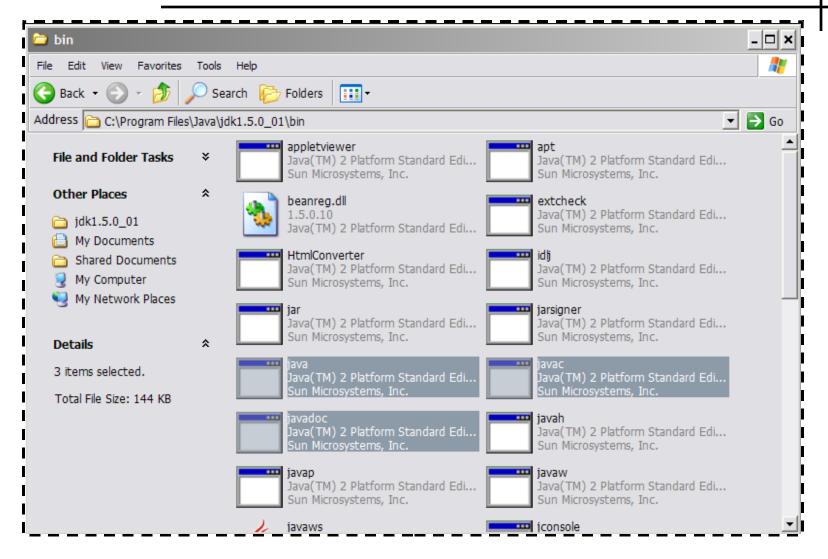


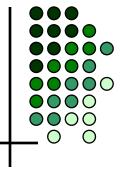


What do I need for Java programming?

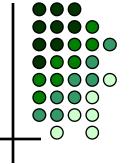
- The Java 2 Platform, Standard Edition (Java SDK)
 - Contains the Java compiler (javac),
 Java Virtual Machine or Interpreter (java),
 Java documenter (javadoc), etc.





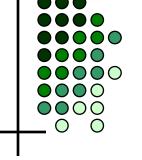


- What can I use to edit and compile/run Java programs?
- A text editor
 ex. NotePad, Edit
- Optional Java IDE (Integrated Development Environment)
 ex. BlueJ, JCreator, JBuilder, Eclipse



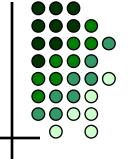
How are classes in Java implemented?

- To create a class file in Java, the filename and the class name should be the same (Java is case sensitive)
- A class file is translated into intermediary code which is later translated by the Java virtual machine (JVM)

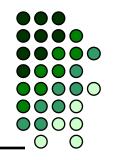


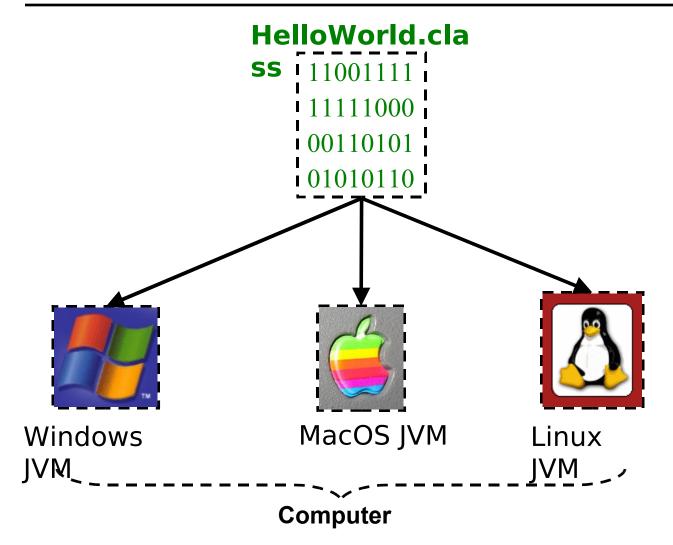
 javac (Java compiler) translates text into instructions into a bytecode

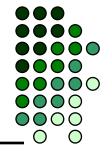
```
public class HelloWorld
 public static void main(String[] args)
   System.out.println("Hello World");
                                               Java
                                               Compiler
HelloWorld.jav
a
                              HelloWorld.cla
                                      SS
                                 (Bytecode)
```

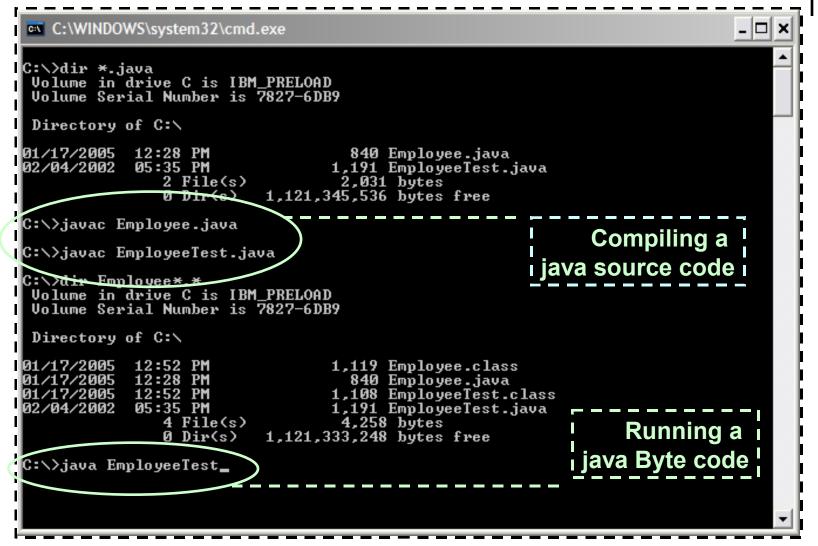


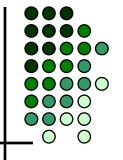
- A bytecode file contains instructions for the Java Virtual Machine (JVM)
- java (JVM) translates bytecode into lower level code





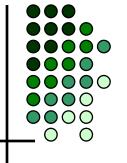






My first Java program

```
public class Hello
  public static void main(String[] args)
      System.out.println("Hello world");
      //Prints out a string into the console
```



- Java entry point
 - For Java to know how to start, an entry point method is indicated.
 - This is similar to the main() function in C.
 - All statements in the main() method will be executed.
 - The main function in Java must follow the following format

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

Object Oriented Programming in Java

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