

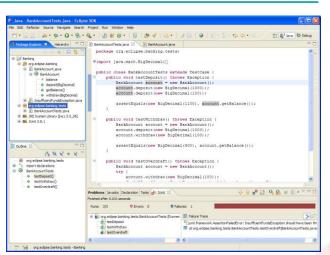
A Simple Java Program

```
//This program prints Welcome to Java!
public class Welcome {
  public static void main(String[] args) {
    System.out.println("Welcome to Java!");
  }
}
```

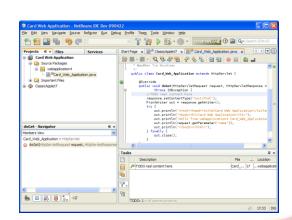
Java Development tools

- You can use a text editor, to create Java Programs and to compile and run the programs from the command windows.
- You can use a Java development tool
 - NetBeans, Eclipse
 - Integrated development environment(IDE)
 - quick, effective
 - Self-study tutorials
 - Java Fundamentals I- Introduction to NetBeans IDE, Part 1
 - https://www.youtube.com/watch?v=Hv2yvXTVTVo
 - Eclipse IDE Tutorial:
 - https://www.youtube.com/watch?v=23tAK5zdQ9c

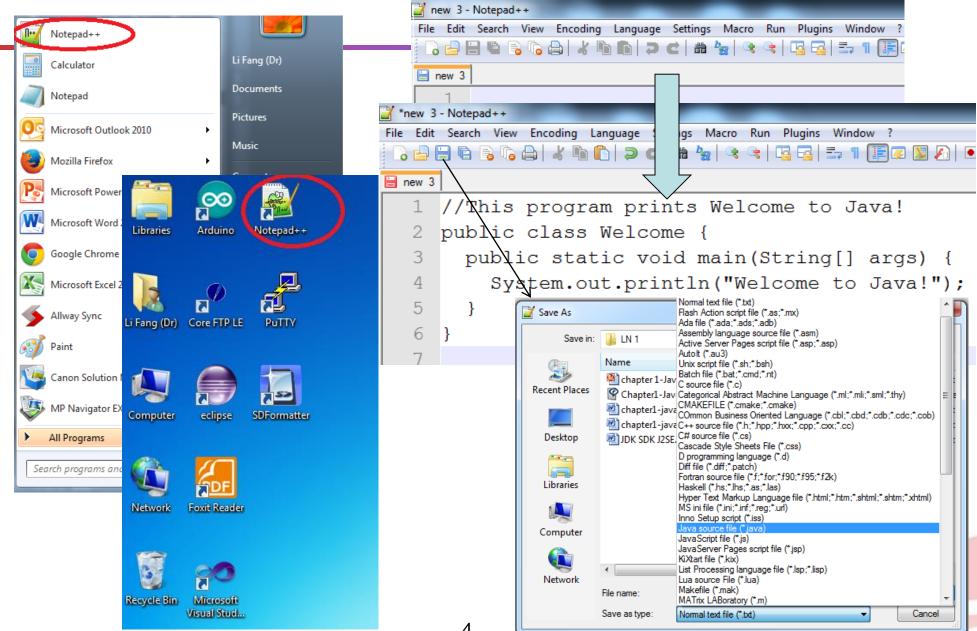


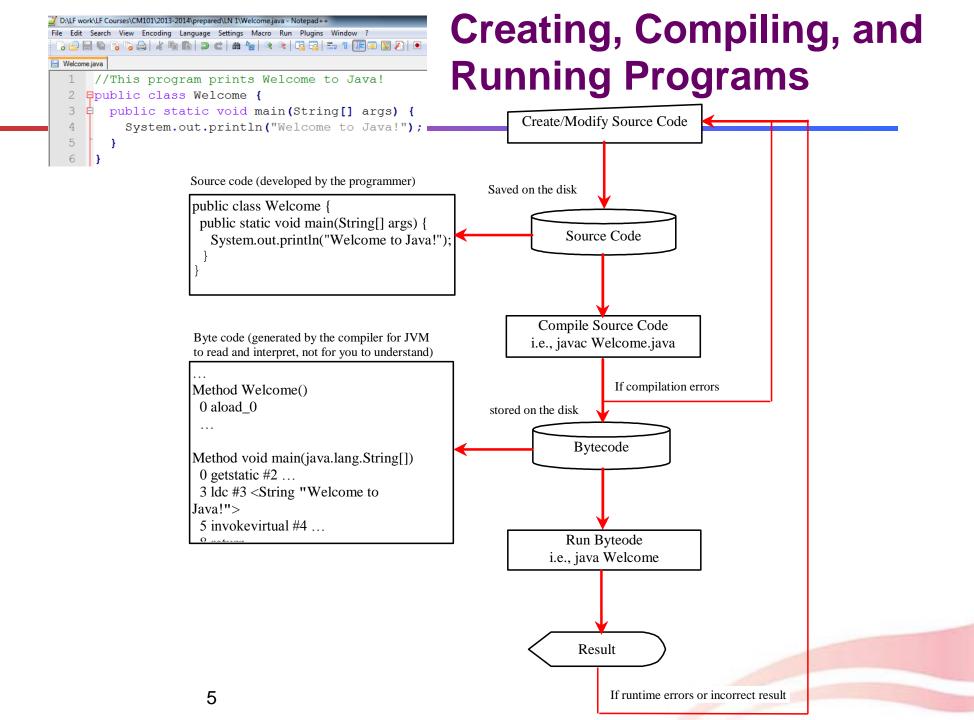




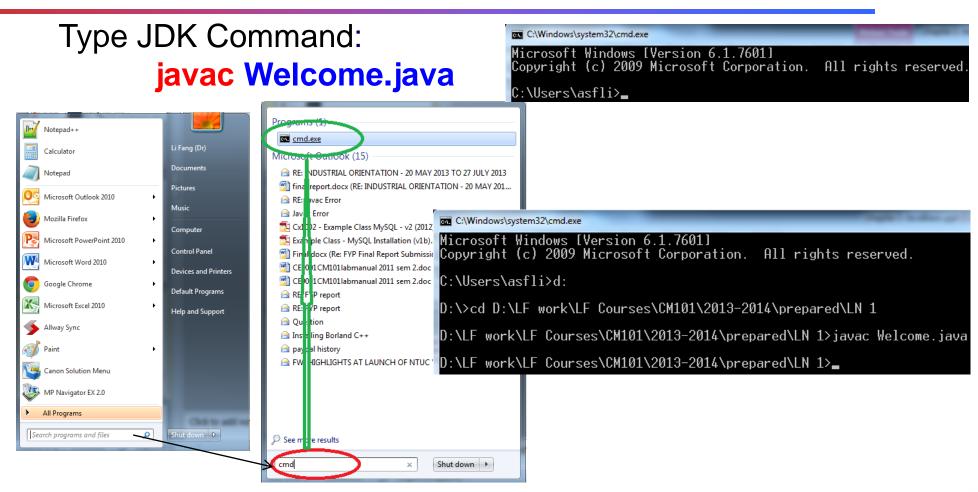


Step 1:Creating and Editing Using NotePad++





Step 2: To compile your program



where javac is JDK Java compiler.

- Compiler translates the source program into Java bytecode.
- •The compiler saves the bytecode into the file Welcome.class.

Step 3: To run the byte code with the Java interpreter

Successful compilation will create the bytecode class file: Welcome.class

```
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1>javac Welcome.java
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1\dir
Volume in drive D is DATA
 Volume Serial Number is 4844-CEB7
Directory of D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1
01/09/2014 12:17 PM
                         <DIR>
                         <DTR>
                              1,832,960 chapter 1-JavaBasic.ppt
                              3,067,954 Chapter1-Java is everywhere.flv
                                 32,256 chapter1-javascript LT.doc
                                 36,864 chapter1-javascript.doc
                                 41.984 JDK SDK J2SE.doc
                                    164 Welcome. java
01/09/2014
               7 File(s)
                               5.012.606 bytes
               2 Dir(s) 322.681.405.440 bytes free
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1>
```

Type JDK Command : java Welcome

➤ The class file (bytecode) is loaded into memory and interpreted by the Java Virtual

Machine (JVM)

```
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1\1ava Welcome
welcome to Java:
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1>
```

Trace a Program Execution

Enter main method

```
//This program prints Welcome to Jav
public class Welcome {
    public static void main(String[] args) {
        System.out.println("Welcome to Java!");
    }
}
```

Trace a Program Execution

```
Execute statement
   //This program prints Welcome to Java
   public class Welcome {
     public static void main (String)
        System.out.println("Welcom to Java!");
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1(java Welcome)
welcome to Java:
                                                             print a message
D:\LF work\LF Courses\CM101\2013-2014\prepared\LN 1>
                                                             to the console
```



GETTING STARTED

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