Objectives		
 Last of Java fundamentals 		
≻Arrays wrap up		
>Indefinite loops		
For-each loops		
Switch statements		
Static methods	s and fields	
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Example FileExtensionFinder /** * This Java program (FileExtensionFinder) takes a file name (a * String) as user input and displays the file extension, lowercased. * @author Redacted McRedacted */ public class FileExtensionFinder { public static void main(String[] args) { Scanner sc = new Scanner(System.in); System.out.print("Enter your filename: "); String filename = sc.nextLine(); sc.close(); int periodIndex = filename.lastIndexOf('.'); String extension = filename.substring(periodIndex + 1); String lcExtension = extension.toLowerCase(); System.out.println("Your file is a(n) " + lcExtension + " file."); } } Good variable names Good chunks – not doing too much in one line Sept 17, 2021 Good high-level comment 6





java.util.Arrays
 Arrays is a class in java.util Static methods for sorting, searching, deepEauals, fill arrays
• To use class, need import statement
<pre>import java.util.Arrays;</pre>
ArraysExample.java Sept 20, 2021 Sprenkle - CSCI209 9





































JavaDocs for Methods * Returns the string representation of the boolean argument. * * @param b - a boolean * @return if the argument is true, a string equal to "true" is returned; otherwise, a string equal to "false" is returned. * */ public static boolean valueOf(boolean b) { Use format similar to class comments Use @param tag(s) to describe what method takes as parameter(s) Use @return tag to describe what method returns Sprenkle - CSCI209 Sept 20, 2021 27





<section-header>
Static Summary
Static fields and methods are part of a class and not an object
Do not require an object of their class to be created to use them
When would we make a method static?
When a method does not have to access an object's state (fields) because all needed data are passed into the method
When a method only needs to access static fields in the class









