

# Program Output

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Java

# Output

## What is output?

# Output

What are some ways a  
program displays  
information?

# Output

`System.out.print(message)`

`System.out.println(message)`

- Java's built-in output command
- `print()`: stays on the same line after displaying *message*
- `println()`: goes to the next line after displaying *message*
- *message* is a collection of characters bounded by “ ”

Use this to debug your programs!!!

# Output

How do you write a String to the screen?

- System** followed by a dot
- out** followed by a dot
- print** or **println**
- an open paren(
- message** is a String
- a close paren
- a semicolon ;

# What is a String?

## String Simple Definition:

- A series of characters *strung* together
- enclosed by “ “
- Actually, zero or more characters

# What is a String?

## String Advanced Definition:

- A class defined by Sun Microsystems
- A class in the java.lang package
- A class containing a character array and various methods in which to manipulate the character array.

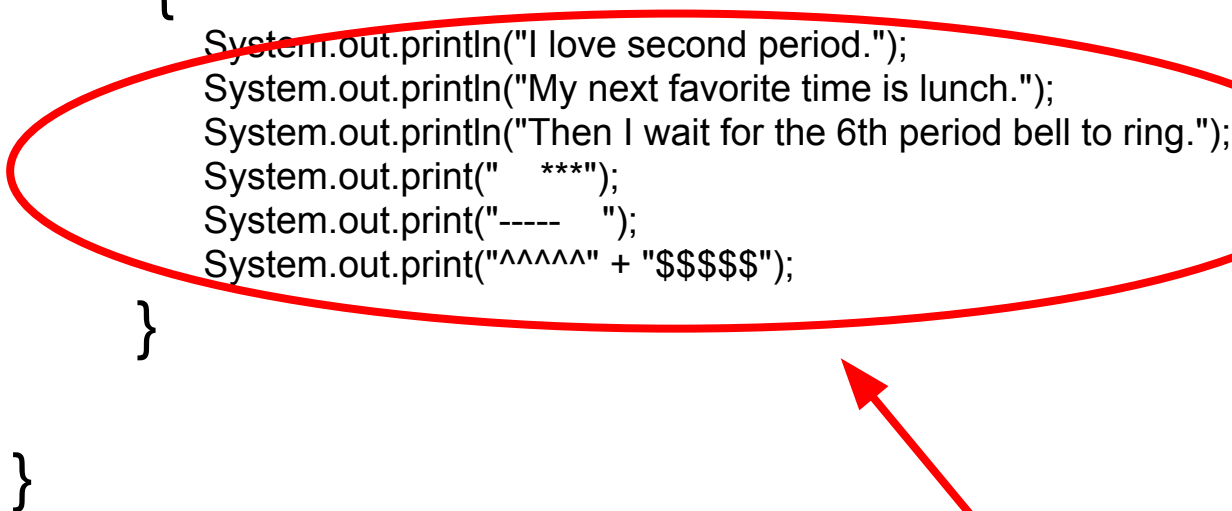
# Lab Notes

- every notes file will contain a lab at the end of the presentation.
- every time you start a new lab, make a copy of the provided *base code* folder
- open the starter.java file using the notepad++ editor
- write your new code between the squiggly brackets (see next slide)



# Lab Notes (continued)

```
class starter {  
    public static void main(String args[])  
    {  
        System.out.println("I love second period.");  
        System.out.println("My next favorite time is lunch.");  
        System.out.println("Then I wait for the 6th period bell to ring.");  
        System.out.print("    ***");  
        System.out.print("----- ");  
        System.out.print("^^^^^^" + "$$$$$$");  
    }  
}
```



delete this stuff before starting  
your lab

# Output Lab

Write a program that outputs the Happy Birthday song to the screen.

The output should look like:

Happy Birthday, to you.

Happy Birthday, to you.

Happy Birthday dear Edward,

Happy Birthday, to you.