Program Output

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Java

What is output?

How can a program display information?

Screen and Audio

Where does output go for Java?

Output ends up in the shell of where you ran the program!


```
Administrator: Command Prompt

C:\Users\jpoole\Desktop\Test_Code>javac starter.java        ← Compile!

C:\Users\jpoole\Desktop\Test_Code>java starter              ← Run!
Hello World                                                 ← Output!
C:\Users\jpoole\Desktop\Test_Code>
```

Output in Java

Line of code:

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

This prints out to the Terminal

Administrator: Command Prompt

```
C:\Users\jpoole\Desktop\Test_Code>javac starter.java

C:\Users\jpoole\Desktop\Test_Code>java starter
Hello World
C:\Users\jpoole\Desktop\Test_Code>
```
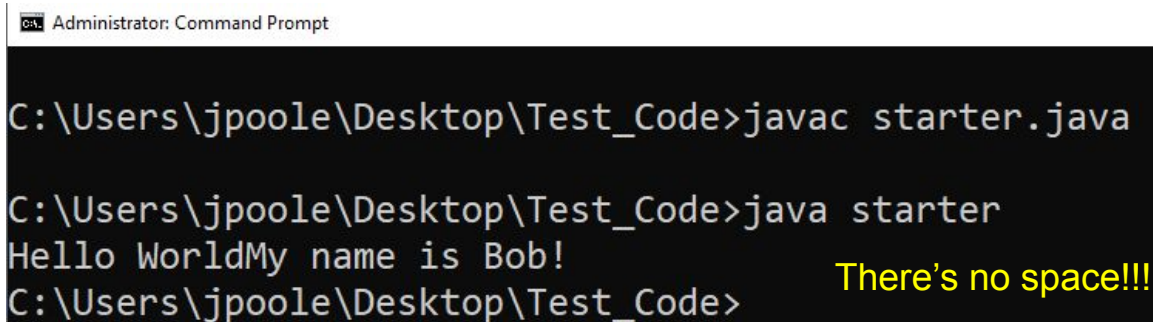
Output in Java

Let's try adding another line!

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

System.out.print("My name is Bob!");
```
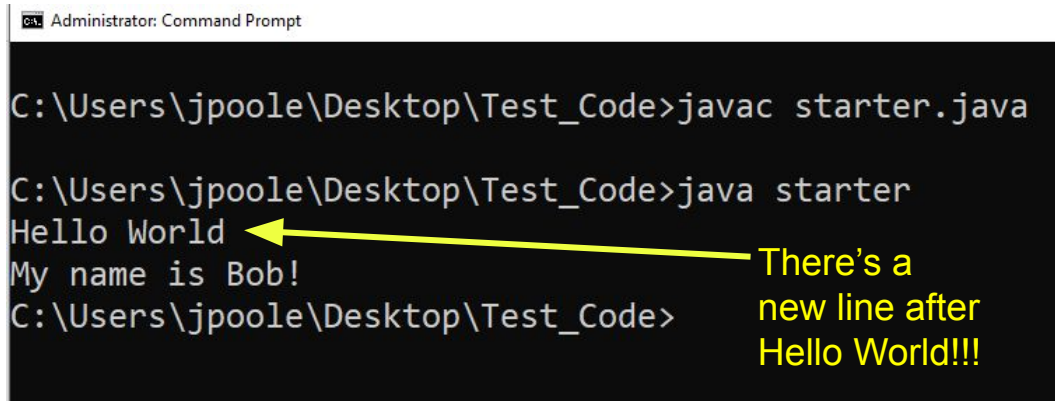
This prints out to the Terminal

Output in Java - New Line

Adding **ln** (line) creates a new line after the String is printed.

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

System.out.print("My name is Bob!");
```

This prints out to the Terminal

Administrator: Command Prompt

```
C:\Users\jpoole\Desktop\Test_Code>javac starter.java

C:\Users\jpoole\Desktop\Test_Code>java starter
Hello World
My name is Bob!
C:\Users\jpoole\Desktop\Test_Code>
```

There's a new line after Hello World!!!

What is a String?

String Simple Definition

- A series of character *strung* together
- Enclosed by " "
- Can have zero or more characters

Advanced Definition: A class containing a character array and various methods in which to manipulate the character array.

Lab Notes

- Every set of **notes** will contain a **lab** at the end!
- Work on this **lab** in the **base_code** folder in the same directory
- Write your code **between** the squiggly brackets like below

```java
public class starter {
    public static void main(String args[]) {
        System.out.println("Hello World");
        System.out.print("My name is Bob!");

    }
}
```
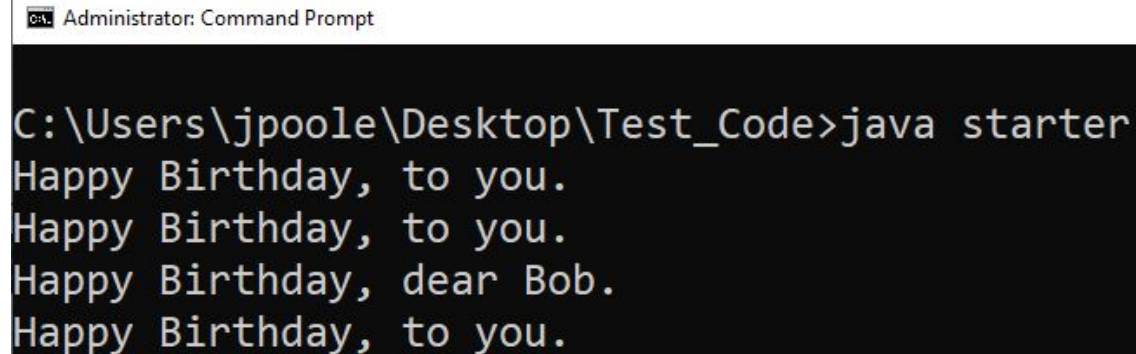
You code here!

Squiggly Brackets

For EVERY "open" bracket, there must be a "close"!

Always should have an even number of brackets.

```java
public class starter {                    ← Open 1
    public static void main(String args[]) {   ← Open 2
        System.out.println("Hello World");
        System.out.print("My name is Bob!");
    }                                      ← Close 2
}                                          ← Close 1
```

Lab: Output

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

Output should like such: