

Essential Computing 1

# Printing

# System.out.print

```
// Print continues printing on the same line.  
System.out.print( "Hello" );  
System.out.print( " World" );
```

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

Hello World

# System.out.print

```
// We can add new lines and tab indents using the escape character \  
System.out.print( "First line\n" );  
System.out.print( "\tSecond indented line" );
```

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System.out.print( "First line\n" );  
System.out.print( "\tSecond indented line" );
```

First line  
    Second indented line

# System.out.println

```
// Print an empty line  
System.out.println();
```

```
// Print a text and move to next line.  
System.out.println( "Hello" );
```

```
// You can combine parts using the addition operator.  
System.out.println( "I have " + 10 + " bananas." );
```

# System.out.println

```
// Print an empty line
System.out.println();

// Print a text and move to next line.
System.out.println( "Hello" );

// You can combine parts using the addition operator.
System.out.println( "I have " + 10 + " bananas." );
```

Hello  
I have 10 bananas.

# System.out.printf

```
// Use format specifier %d to place decimal integers.  
System.out.printf( "I have %d bananas", 10 );
```

```
// Use format specifier %f to place float values.  
System.out.printf( "I weigh %f tons", 3.47 );
```



# System.out.printf

```
// Use format specifier %d to place decimal integers.  
System.out.printf( "I have %d bananas", 10 );
```

```
// Use format specifier %f to place float values.  
System.out.printf( "I weigh %f tons", 3.47 );
```

I have 10 bananasI weigh 3,4700000 tons

# System.out.printf

```
// Add multiple arguments.  
System.out.printf(  
    "I have %d bananas and I weigh %f tons",  
    10,  
    3.47  
);
```

# System.out.printf

```
// Add multiple arguments.  
System.out.printf(  
    "I have %d bananas and I weigh %f tons",  
    10,  
    3.47  
);
```

I have 10 bananas and I weigh 3,470000 tons

# System.out.printf

```
// Use format specifier %.Xf to specify number of decimals.  
System.out.printf(  
    "I have %d bananas and I weigh %.2f tons",  
    10,  
    3.47  
);
```

# System.out.printf

```
// Use format specifier %.Xf to specify number of decimals.  
System.out.printf(  
    "I have %d bananas and I weigh %.2f tons",  
    10,  
    3.47  
);
```

I have 10 bananas and I weigh 3,47 tons

# System.out.printf

```
// Use format specifier %s for strings.  
System.out.printf(  
    "I have %d bananas and I weigh %.2f%s",  
    10,  
    3.47,  
    "kg"  
);
```

# System.out.printf

```
// Use format specifier %s for strings.  
System.out.printf(  
    "I have %d bananas and I weigh %.2f%s",  
    10,  
    3.47,  
    "kg"  
);
```

I have 10 bananas and I weigh 3,47kg

# **System.out.printf**

A whole lot of formatting options.

<https://www.baeldung.com/java-printstream-printf>