

Nicer Output with System.out.printf

Ugly	<code>System.out.println("User " + user + " has " + coins + " cions");</code>
Better	<code>System.out.printf("User %s has %d coins%n", user, coins);</code>
<code>%n</code>	Line Feed
<code>%s</code>	String
<code>%d</code>	Integer (byte, short, int, long, ...)
<code>("%3d %s", 7, "flowers")</code>	" 7 flowers" with leading spaces
<code>("%12s", "flowers")</code>	" flowers" - right aligned in a field of 12 characters.
<code>%f</code>	Floating Point
<code>("%.3f %%", 0.1239)</code>	"0.124 %" with 3 digits after the "."
<code>%%</code>	The character "%"

Formatting details can be found at <https://docs.oracle.com/en/java/javase/12/docs/api/java.base/java/util/Formatter.html#syntax>

```
System.out.printf("%3d: %-20s%n", 12, "apples"); -> "12 apples"
System.out.printf("%7.2f %% rebate%n", 12.4); -> " 12.40 % rebate" with line break
System.out.printf("%07.2f %% rebate%n", 12.4); -> "0012.40 % rebate"
System.out.printf("%-7.2f %% rebate%n", 12.456); -> "12.46  % rebate" // rounded and left aligned
```

Implement toString();

The `toString` method is called for a String representation of an object. A good `toString`-Method helps if you work with debuggers or loggers.

```
public String toString() {
    return String.format("User %s has %d coins", user, coins);
}
```

Formatter and StringBuilder

```
public StringBuilder toStringBuilder() {
    StringBuilder string = new StringBuilder();
    java.util.Formatter formatter = new java.util.Formatter(string);
    formatter.format("Account information:%n");
    formatter.format("Name: %s%n", accountName);
    formatter.format("Balance: %d%n", balance);
    formatter.format("Interest: %.2f%%n", interest/100.0);
    return string;
}
```

Example using the [java.lang.StringBuilder](#) and [java.util.Formatter](#) to build a String.



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