Cheatography

Hints for new Java Programmers Cheat Sheet

by Srabudc via cheatography.com/84490/cs/20331/

Nicer Output with System.out.printf

Ugly	`System.ou t.p rin tln ("User " + user + " has " + coins + " cions");`
Better	`System.ou t.p rin tf( "User %s has %d coins% n", user, coins);`
`%n`	Line Feed
`%s`	String
`%d`	Integer (`byte`, `short`, `int`, `long`, ...)
`("%3d %s", 7, " flo wer s")`	`"  7 flower s"` with leading spaces
`("%1 2s", " flo wer s")`	`"  flower s"` - right aligned in a field of 12 characters.
`%f`	Floating Point
`("%.3f %%", 0.1239)`	`" 0.124 %"` with 3 digits after the "."
`%%`	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.ou t.p rin tf( "%3d: %-20s% n", 12, " app les ");  ->  "12 apples "
System.ou t.p rin tf( " %7.2f %% rebate %n", 12.4);  -> "  12.40 % rebate " with line break
System.ou t.p rin tf( " %07.2f %% rebate %n", 12.4);  -> " 0012.40 % rebate "
System.ou t.p rin tf( " %-7.2f %% rebate %n", 12.456);  -> " 12.4 6    % rebate "  // rounded and left ali
gned
```

Implement toString();

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

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

Formatter and Stringbuilder

```
public StringBuilder toStringBuilder() {
    Str ing Builder string = new String Bui lder();
    jav a.u til.Fo rmatter formatter = new java.u til.Fo rma tte r(s tring);
    for mat ter.fo rma t("A ccount inform ati on: %n");
    for mat ter.fo rma t("Name: %s%n", accoun tName);
    for mat ter.fo rma t("B alance: %d%n", balance);
    for mat ter.fo rma t("I nte rest: %.2f%% %n", intere st/ 100.0);
    return string;
}
```

Example using the java.lang.StringBuilder and java.util.Formatter to build a String.



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