

CSC 105 Handout: Conditional Execution Examples

if/else construct

```
<html>
<head>
<title>Variable Content Via If/Else</title>
</head>

<body style="text-align: center">
<h1>Variable Content Via If/Else</h1>
<script language="JavaScript" type="text/JavaScript">
<!--
if (Math.random() > 0.5) {
    document.writeln('')
} else {
    document.writeln('')
}
document.writeln('<p>A randomly chosen image.</p>')
-->
</script>
</body>
</html>
```

Comment [sc1]: This is the test. Since Math.random() returns a decimal between 0 and 1, in this example the test will be true half the time and false half the time.

Comment [sc2]: This is the first body section. It will be executed if the test value is true. Note that it can consist of more than one line, if you want.

Comment [sc3]: This is the second body section. It will be executed if the test value is false. It can also consist of as many lines as desired.

Comment [sc4]: Regardless of which branch of the conditional gets executed, this line will be the next one to run afterwards.

switch construct

```
<html>
<head>
<title>Variable Content Via Switch</title>
</head>

<body style="text-align: center">
<h1>Variable Content Via Switch</h1>
<script language="JavaScript" type="text/JavaScript">
<!--
switch (Math.floor(6*Math.random())) {
    case 0:
        document.writeln('')
        break
    case 1:
        document.writeln('')
        break
    case 2:
    case 3:
        document.writeln('')
        break
    default:
        document.writeln('')
        break
}
-->
</script>
</body>
</html>
```

Comment [sc5]: This is the criterion for the switch. In this example, it can have any integer value from 0 to 5.

Comment [sc6]: This is the first body section. The case 0 that appears on the preceding line means that this body will be executed only if the value of the criterion is equal to 0.

Comment [sc7]: Another body section. This one will be executed only if the value of the criterion is equal to 1.

Comment [sc8]: This body section has two cases listed before it. It will be executed if the criterion has values 2 or 3.

Comment [sc9]: This final body section is the default, meaning it will be executed only if none of the previous cases applies. For this example, that will happen if the criterion has the values 4 or 5.