EXAMPLE 3: SEPARATING HTML AND JAVASCRIPT INTO SEPARATE FILES

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IN REAL-LIFE WEBPAGES, HTML AND JAVASCRIPT ARE OFTEN WRITTEN BY DIFFERENT PEOPLE

FOR THAT REASON, ITS NEAT TO ALSO PUT THE HTML AND JAVASCRIPT INTO SEPARATE FILES

```html
<!doctype html>
<html lang="en">
<meta charset="utf-8">
<head>
<title>Javascript Example 1</title>
<script>


function printHelloWorld() {
  var userInput = prompt("Please enter a number between 1 and 10");
  if(userInput >= 1 && userInput <= 10) {
    for (var i = 0;i<userInput;i++) {
      document.write("<br/> " + i + ". That message has been written.</br>");
    }
  }
  else {
      alert("You entered:" + userInput + "..please enter a number between 1 and 10!");
  }
}

</script>
</head>


<body>
<h1>Our second Javascript example</h1>
<p> This page will prompt you for a number and do some stuff with it </p>

<script>
window.onload = printHelloWorld;
</script>
</body>
</html>
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WITH SOME EMBEDDED JAVASCRIPT..

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WHICH CAN BE FACTORED OUT INTO A SEPARATE FILE..

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<title>Javascript Example 3</title>
<head>
<script src="Example_3.js">
</script>

<script>
window.onload = printHelloWorld;

</script>

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<body>
<h1>Our third(!) Javascript example</h1>
<p> This page will prompt you for a number and do some stuff with it </p>
</body>
</html>
```

```javascript
function printHelloWorld() {
    var userInput = prompt("Please enter a number betwee
    if(userInput >= 1 && userInput <= 15) {
      for (var i = 0;i<userInput;i++) {
        document.write("<br/> " + i + ". That message ha
      }
    }
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        alert("You entered:" + userInput + "..please ent
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NOW, THE JAVASCRIPT FILE NEEDS TO BE EXPLICITLY REFERENCED FROM THE HTML FILE

WE HAVE SEEN THAT AN HTML FILE CAN CONTAIN ANY NUMBER OF SCRIPT TAGS

SOME OF THESE DIRECTLY ENCLOSE JAVASCRIPT CODE

OTHERS REFERENCE A SEPARATE JAVASCRIPT FILE

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YOUR PAGE WILL LOAD QUICKEST IF YOU PLACE THE JAVASCRIPT IN A SEPARATE FILE AND REFERENCE IT FROM THE BODY RATHER THAN FROM THE HEAD

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THE PAGE IS LOADED AND RENDERED FROM THE TOP TO THE BOTTOM. BROWSERS SCAN THE PAGE LINE BY LINE AND RENDER HTML, INTERPERT JAVASCRIPT ETC

IF YOU LOAD THE JAVASCRIPT IN THE <HEAD> THE ENTIRE JS IS INTERPRETED BEFORE THE VISIBLE ELEMENTS OF THE HTML ARE RENDERED

THIS MAKES THE PAGE SEEM MORE SLOW AS THE USER GETS NO VISUAL INFORMATION TILL THE ENTIRE JS IS INTERPRETED

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