

# INFO 151

# Web Systems and Services

Week 8 (T1)

Dr Philip Moore

Dr Zhili Zhao

# Overview

- In this tutorial we will introduce:
  - The PHP syntax with the similarities and differences between JavaScript and PHP
  - Selection (conditional statements) including:
    - **if** / **if...else** / **if...elseif...else** statements
    - **switch** statements
  - Catching runtime errors
  - Passing data between JavaScript and PHP
- There are similarities and differences between JavaScript and PHP
  - The differences are mainly in the language syntax
  - Using the incorrect syntax will produce errors which are hard to find

# Selection (Conditional) Statements

# Selection Operators

- JavaScript and PHP implement the same selection operators (conditions and branches)
  - `if`
  - `If...else`
  - `If...else if...else`
  - `switch`
- In the following slides we demonstrate
  - The selection operators in simple applications
  - The syntax with the differences between JavaScript and PHP

# **if** Selection Statements

# if Statements

- JavaScript if statement

```
if (condition) {  
    block of code to be executed if the  
    condition is true  
}
```

- PHP if statement

```
if (condition) {  
    code to be executed if condition is true;  
}
```

```

1  <!DOCTYPE html>
2  <!--
3  JavaScript if statement example
4  -->
5  <html>
6  <head>
7      <title>JavaScript if example</title>
8      <meta charset="UTF-8">
9      <meta name="viewport" content="width=device-width, initial-scale=1.0">
10 </head>
11 <body>
12     <p>Display "Good day!" if the hour is less than 18:00:</p>
13     <p id="demo">Good Evening!</p>
14     <script>
15         if (new Date().getHours() < 18) {
16             document.getElementById("demo").innerHTML = "Good day!";
17         }
18     </script>
19 </body>
20 </html>

```

```
1 <!DOCTYPE html>
2 <!--
3   JavaScript if statement example
4 -->
5 <html>
6   <head>
7     <title>JavaScript if example</title>
8     <meta charset="UTF-8">
9     <meta name="viewport" content="width=device-width, initial-
10  </head>
11  <body>
12    <p>Display "Good day!" if the hour is less than 18:00:</p>
13    <p id="demo">Good Evening!</p>
```

JavaScript if example

http://localhost:8383/JS\_if/index.html

100%

Display "Good day!" if the hour is less than 18:00:

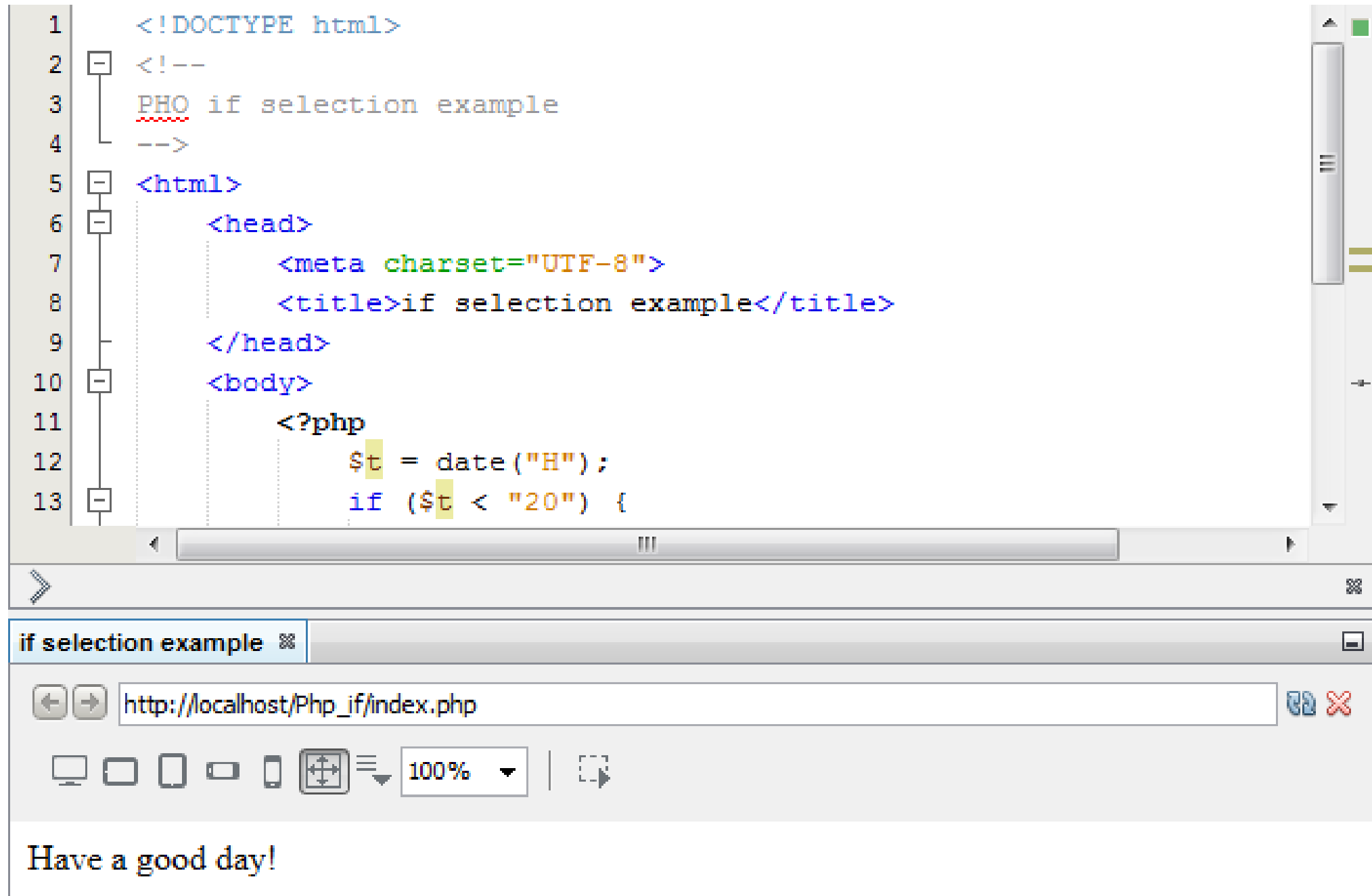
Good day!



```

1      <!DOCTYPE html>
2      <!--
3      PHO if selection example
4      -->
5      <html>
6          <head>
7              <meta charset="UTF-8">
8              <title>if selection example</title>
9          </head>
10         <body>
11             <?php
12                 $t = date("H");
13                 if ($t < "20") {
14                     echo "Have a good day!";
15                 }
16             ?>
17         </body>
18     </html>
19

```



The image shows a web browser window with a single tab titled "if selection example". The address bar displays the URL "http://localhost/Php\_if/index.php". Below the address bar, there are icons for different device views (desktop, tablet, smartphone) and a zoom level of 100%. The main content area of the browser displays the text "Have a good day!". Above the browser window, a portion of a code editor is visible, showing the PHP code that generates the output. The code includes an HTML document type declaration, a comment, and an HTML structure with a head section containing meta and title tags, and a body section containing a PHP script. The PHP script uses the date function to get the current hour and checks if it is less than 20.

```
1 <!DOCTYPE html>
2 <!--
3 PHO if selection example
4 -->
5 <html>
6   <head>
7     <meta charset="UTF-8">
8     <title>if selection example</title>
9   </head>
10  <body>
11    <?php
12      $t = date("H");
13      if ($t < "20") {
```

if selection example

http://localhost/Php\_if/index.php

100%

Have a good day!

# `if...else` Selection Statements

# If...else Statements

- JavaScript

```
if (condition) {  
    block of code to be executed if the condition is true  
} else {  
    block of code to be executed if the condition is false  
}
```

- PHP

```
if (condition) {  
    code to be executed if condition is true;  
} else {  
    code to be executed if condition is false;  
}
```

```
2  <!--
3  JavaScript if...else example
4  -->
5  <html>
6  <head>
7      <title>JavaScript if...else example</title>
8      <meta charset="UTF-8">
9      <meta name="viewport" content="width=device-width, initial-scale=1.0">
10 </head>
11 <body>
12     <p>Click the button to display a time-based greeting:</p>
13     <button onclick="myFunction()">Try it</button>
14     <p id="demo"></p>
15     <script>
16         function myFunction() {
17             var hour = new Date().getHours();
18             var greeting;
19             if (hour < 18) {
20                 greeting = "Good day";
21             } else {
22                 greeting = "Good evening";
23             }
24             document.getElementById("demo").innerHTML = greeting;
25         }
26     </script>
27 </body>
28 </html>
29
```

2

<!--

3

JavaScript if...else example

4

-->

5

<html>

6

<head>

7

<title>JavaScript if...else example</title>

8

<meta charset="UTF-8">

9

<meta name="viewport" content="width=device-width, initial-

10

</head>

11

<body>

12

<p>Click the button to display a time-based greeting:</p>

13

<button onclick="myFunction()">Try it</button>

14

<p id="demo"></p>

html body script

JavaScript if...else exam... %

http://localhost:8383/JS\_if\_else/index.html

100%

Click the button to display a time-based greeting:

Try it

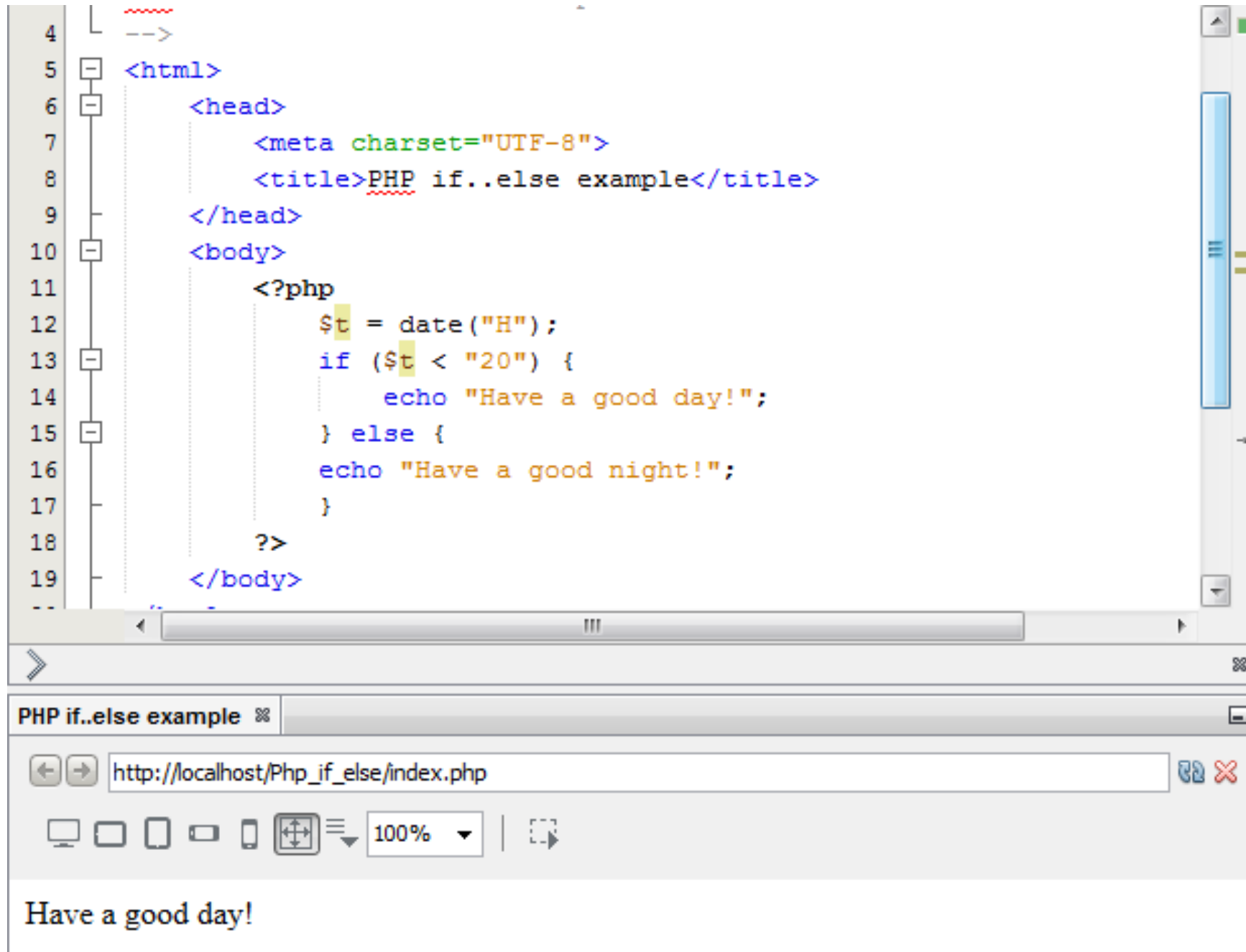
Good day

28/11/2020

INFO 151 - Web Systems and Services

14

```
1      <!DOCTYPE html>
2      <!--
3      PHP if...else statement example
4      -->
5      <html>
6          <head>
7              <meta charset="UTF-8">
8              <title>PHP if..else example</title>
9          </head>
10         <body>
11             <?php
12                 $t = date("H");
13                 if ($t < "20") {
14                     echo "Have a good day!";
15                 } else {
16                     echo "Have a good night!";
17                 }
18             ?>
19         </body>
20     </html>
```





# If...elseif...else

## Selection Statements

# JavaScript **if...elseif...else** Statements

```
if (condition1) {  
    block of code to be executed if condition1 is  
    true  
} else if (condition2) {  
    block of code to be executed if the condition1  
    is false and condition2 is true  
} else {  
    block of code to be executed if the condition1  
    is false and condition2 is false  
}
```

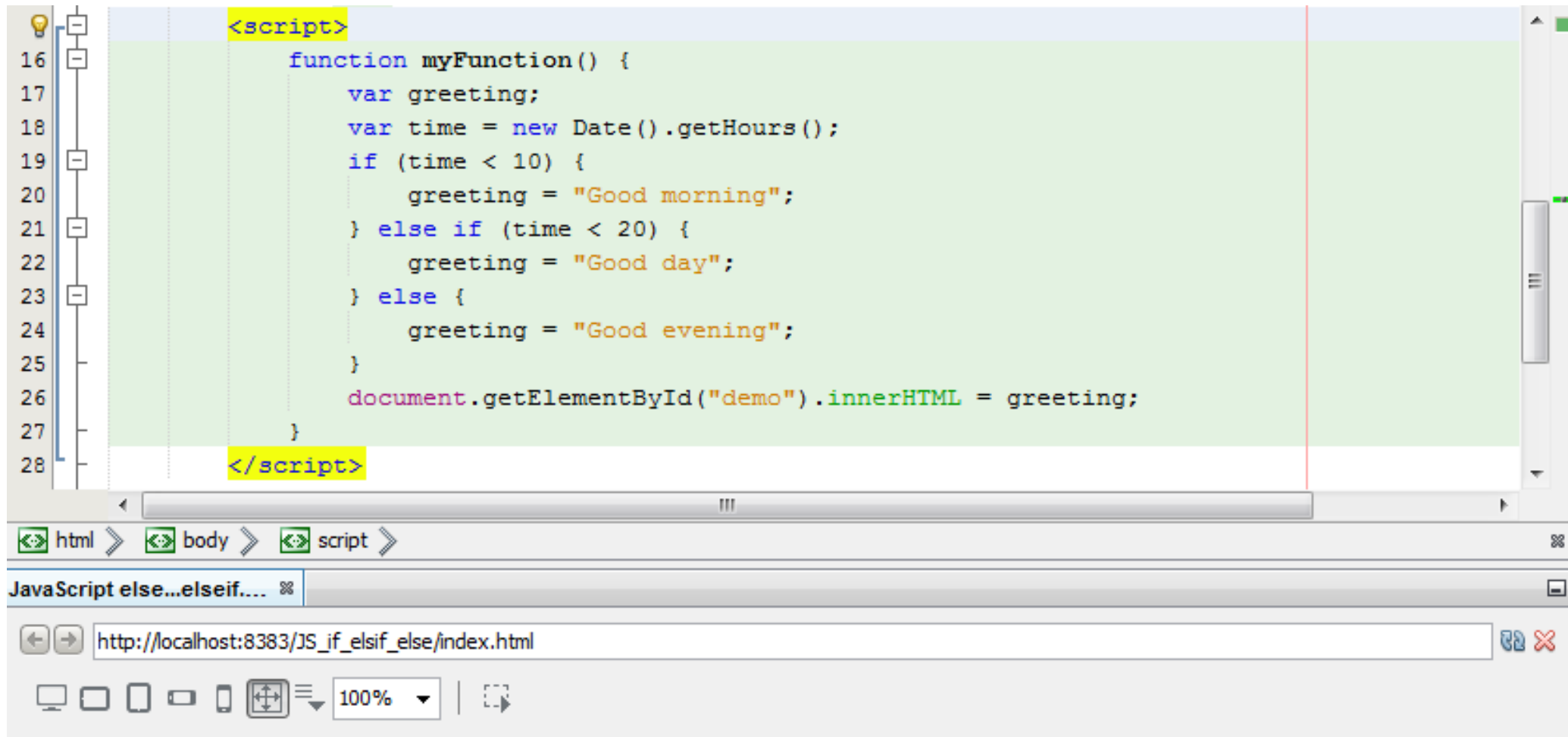
# PHP **if...elseif...else** Statements

```
if (condition) {  
    code to be executed if this condition is true;  
} elseif (condition) {  
    code to be executed if this condition is true;  
} else {  
    code to be executed if all conditions are  
    false;  
}
```

```

4  L  -->
5  [-] <html>
6  [-]   <head>
7  |       <title>JavaScript else...elseif...else example</title>
8  |       <meta charset="UTF-8">
9  |       <meta name="viewport" content="width=device-width, initial-scale=1.0">
10 |   </head>
11 [-]   <body>
12 |       <p>Click the button to get a time-based greeting:</p>
13 |       <button onclick="myFunction()">Try it</button>
14 |       <p id="demo"></p>
15 [-]   <script>
16 |       function myFunction() {
17 |           var greeting;
18 |           var time = new Date().getHours();
19 |           if (time < 10) {
20 |               greeting = "Good morning";
21 |           } else if (time < 20) {
22 |               greeting = "Good day";
23 |           } else {
24 |               greeting = "Good evening";
25 |           }
26 |           document.getElementById("demo").innerHTML = greeting;
27 |       }
28 |   </script>
29 |   </body>
30 </html>
31

```

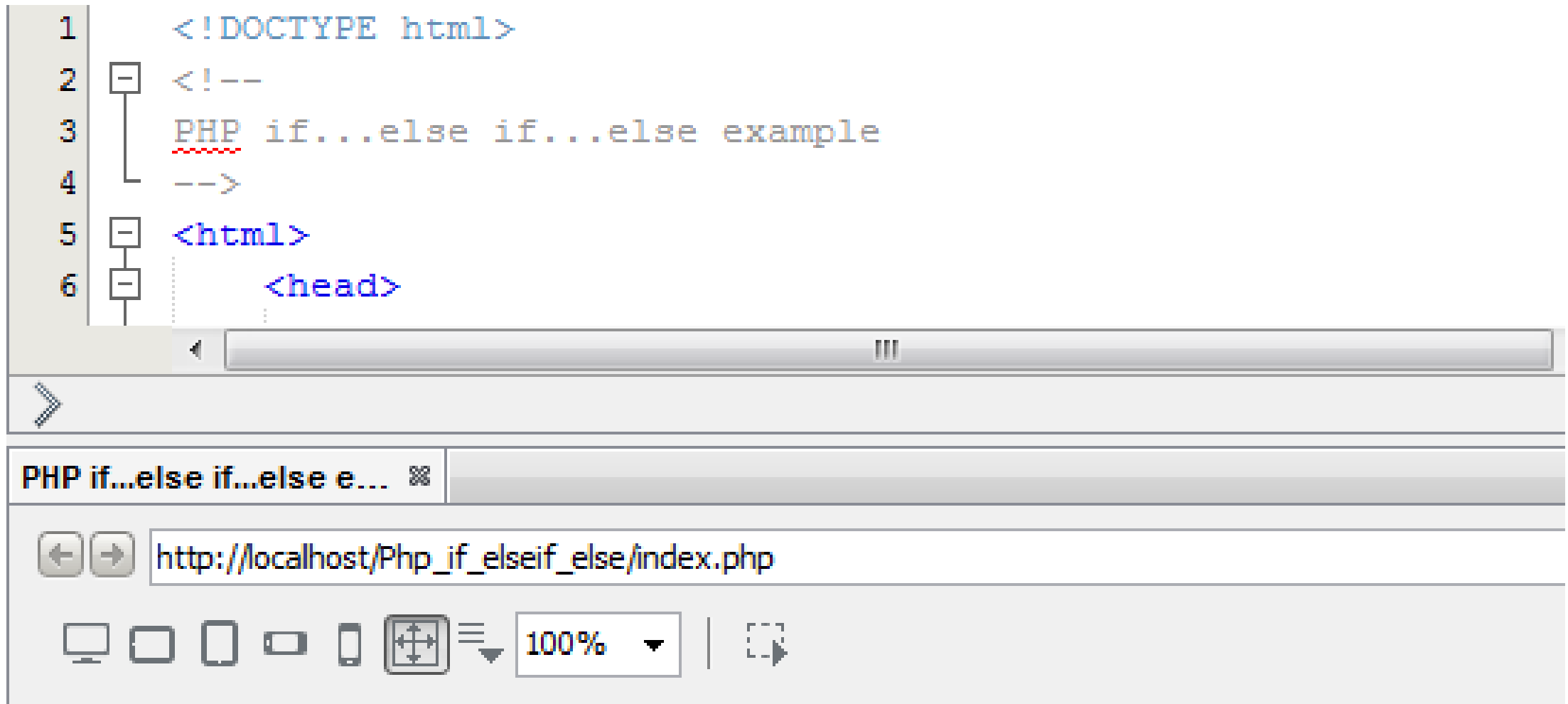


Click the button to get a time-based greeting:

Try it

Good day

```
1 <!DOCTYPE html>
2 <!--
3 PHP if...else if...else example
4 -->
5 <html>
6 <head>
7     <meta charset="UTF-8">
8     <title>PHP if...else if...else example</title>
9 </head>
10 <body>
11     <?php
12         $t = date("H");
13         echo "<p>The hour (of the server) is " . $t;
14         echo ", and will give the following message:</p>";
15         if ($t < "10") {
16             echo "Have a good morning!";
17         } elseif ($t < "20") {
18             echo "Have a good day!";
19         } else {
20             echo "Have a good night!";
21         }
22     ?>
23 </body>
24 </html>
25
26
```

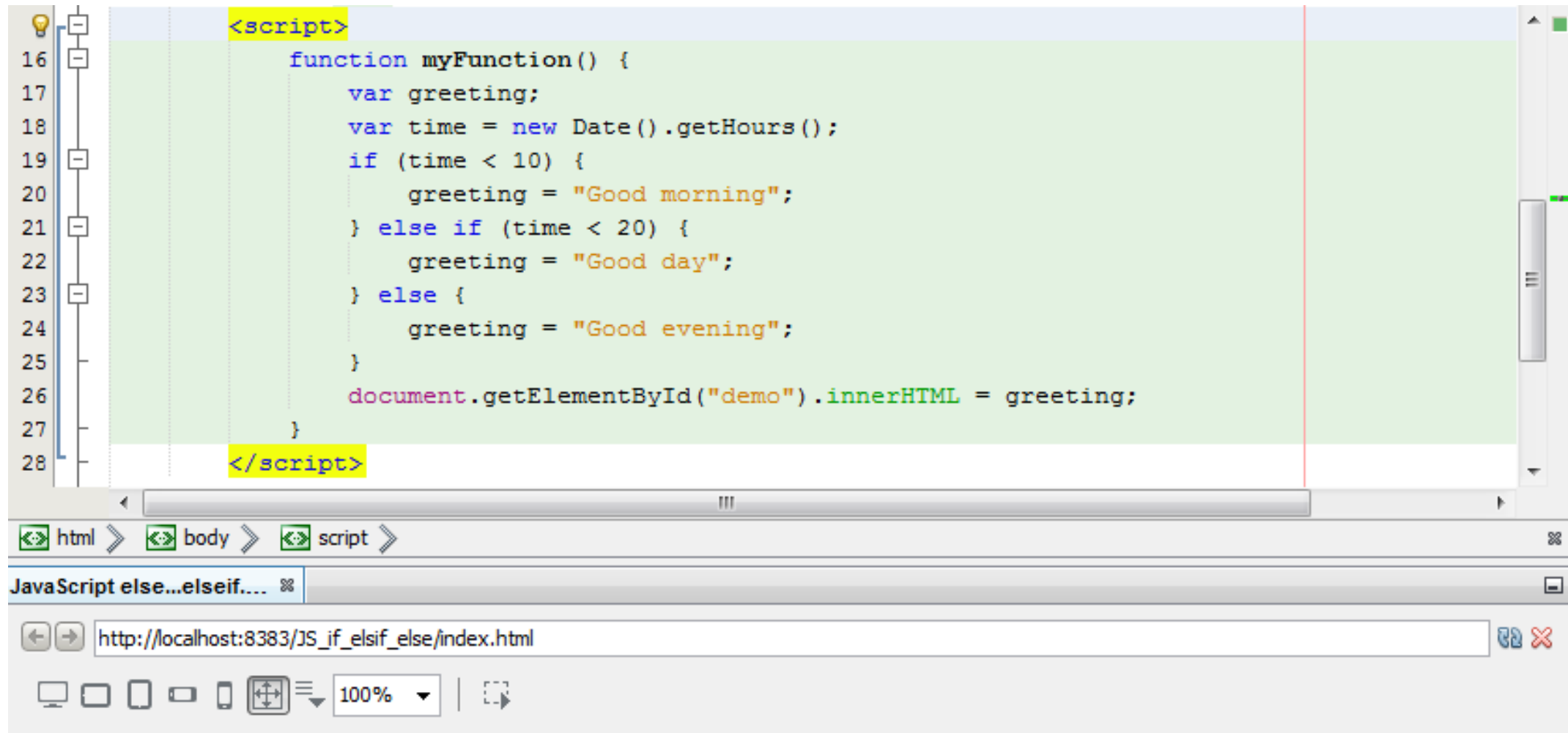


The hour (of the server) is 19, and will give the following message:

Have a good day!

```
4  L  -->
5  [-] <html>
6  [-]   <head>
7      <title>JavaScript else...elseif...else example</title>
8      <meta charset="UTF-8">
9      <meta name="viewport" content="width=device-width, initial-scale=1.0">
10  [-]   </head>
11  [-]   <body>
12      <p>Click the button to get a time-based greeting:</p>
13      <button onclick="myFunction()">Try it</button>
14      <p id="demo"></p>
15  [-]   <script>
16      function myFunction() {
17          var greeting;
18          var time = new Date().getHours();
19          if (time < 10) {
20              greeting = "Good morning";
21          } else if (time < 20) {
22              greeting = "Good day";
23          } else {
24              greeting = "Good evening";
25          }
26          document.getElementById("demo").innerHTML = greeting;
27      }
28  [-]   </script>
29  [-]   </body>
30  [-] </html>
31
```





Click the button to get a time-based greeting:

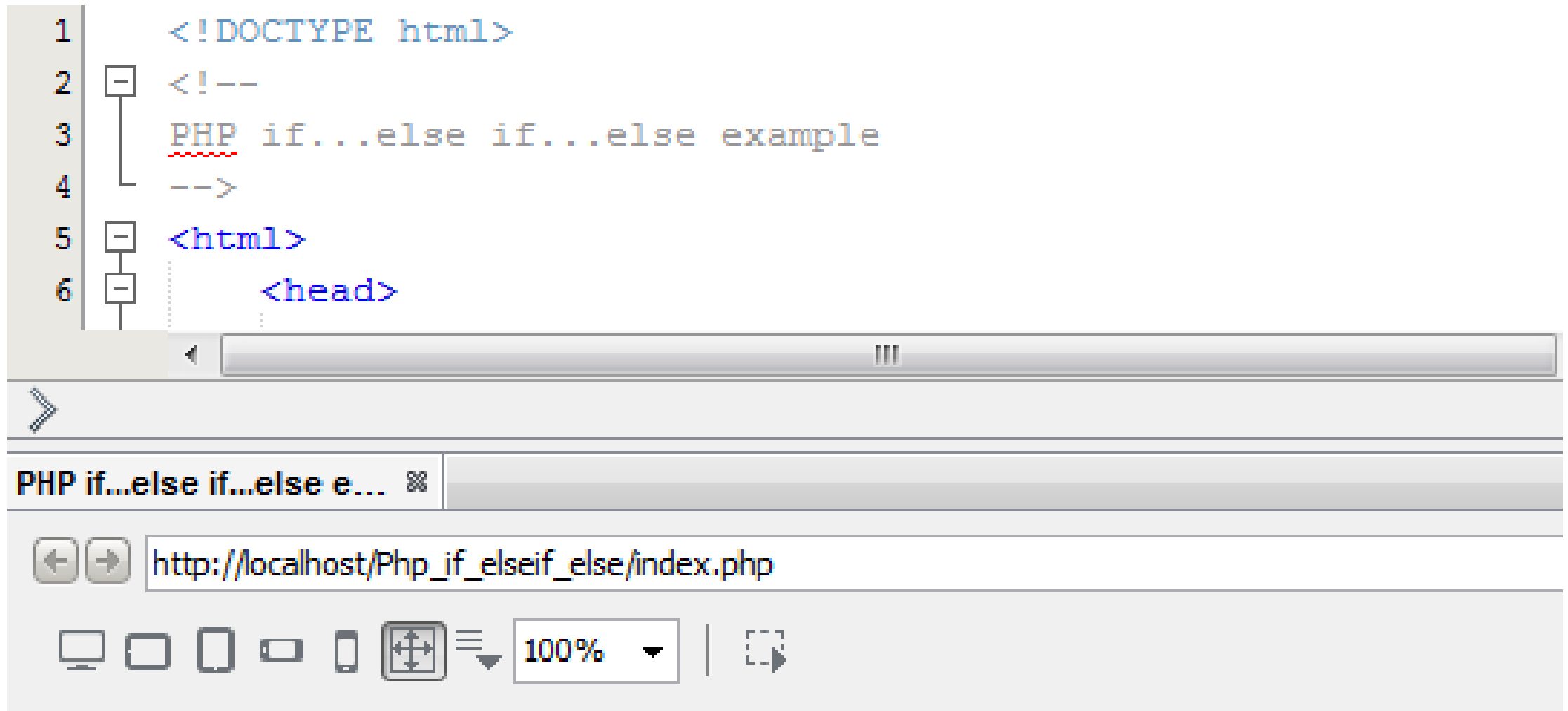
Try it

Good day

```

1  <!DOCTYPE html>
2  <!--
3  PHP if...else if...else example
4  -->
5  <html>
6  <head>
7      <meta charset="UTF-8">
8      <title>PHP if...else if...else example</title>
9  </head>
10 <body>
11     <?php
12         $t = date("H");
13         echo "<p>The hour (of the server) is " . $t;
14         echo ", and will give the following message:</p>";
15         if ($t < "10") {
16             echo "Have a good morning!";
17         } elseif ($t < "20") {
18             echo "Have a good day!";
19         } else {
20             echo "Have a good night!";
21         }
22     ?>
23 </body>
24 </html>
25
26

```



The hour (of the server) is 19, and will give the following message:

Have a good day!

# **switch** Selection Statements

# JavaScript **switch...case** Operators

```
switch(expression) {  
    case n:  
        code block  
        break;  
    case n:  
        code block  
        break;  
    default:  
        code block  
}
```

# PHP `switch...case` Operators

```
switch (n) {  
    case label1:  
        code to be executed if n=label1;  
        break;  
    case label2:  
        code to be executed if n=label2;  
        break;  
    case label3:  
        code to be executed if n=label3;  
        break;  
    ...  
    default:  
        code to be executed if n is different from all  
labels;  
}
```

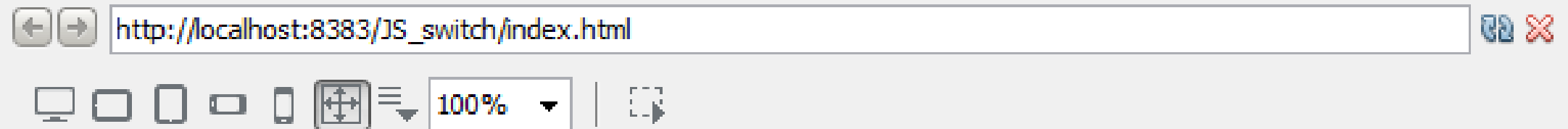
```

13 <body>
14 <p id="demo"></p>
15 <script>
16     var day;
17     switch (new Date().getDay()) {
18         case 0:
19             day = "Sunday";
20             break;
21         case 1:
22             day = "Monday";
23             break;
24         case 2:
25             day = "Tuesday";
26             break;
27         case 3:
28             day = "Wednesday";
29             break;
30         case 4:
31             day = "Thursday";
32             break;
33         case 5:
34             day = "Friday";
35             break;
36         case 6:
37             day = "Saturday";
38         }
39     document.getElementById("demo").innerHTML = "Today is " + day;
40 </script>
41 </body>
42 </html>

```

```
29         break;
30     case 4:
31         day = "Thursday";
32         break;
33     case 5:
34         day = "Friday";
35         break;
36     case 6:
37         day = "Saturday";
38     }
39     document.getElementById("demo").innerHTML = "Today is " +
40     </script>
41 </body>
```

TODO supply a title



Today is Thursday



```
1 <!DOCTYPE html>
2 <!--
3  PHP switch...case example
4  -->
5 <html>
6   <head>
7       <meta charset="UTF-8">
8       <title>PHP switch...case example</title>
9   </head>
10  <body>
11      <?php
12          $favcolor = "red";
13          switch ($favcolor) {
14              case "red":
15                  echo "Your favorite color is red!";
16                  break;
17              case "blue":
18                  echo "Your favorite color is blue!";
19                  break;
20              case "green":
21                  echo "Your favorite color is green!";
22                  break;
23              default:
24                  echo "Your favorite color is neither red, blue, nor green!";
25          }
26      ?>
27  </body>
28 </html>
29
```

```
9      </head>
10     <body>
11         <?php
12             $favcolor = "red";
13             switch ($favcolor) {
14                 case "red":
15                     echo "Your favorite color is red!";
16                     break;
17                 case "blue":
18                     echo "Your favorite color is blue!";
19                     break;
20                 case "green":
21                     echo "Your favorite color is green!";
```

PHP switch...case example

←

→

http://localhost/Php\_switch/index.php

🔗

✕

🖥

📱

📺

📺

📺

📺

🔍

☰

100%

🖱

🖱

Your favorite color is red!

Find Selection (Ctrl+F3)

```
9      </head>
10     <body>
11         <?php
12             $favcolor = "black";
13             switch ($favcolor) {
14                 case "red":
15                     echo "Your favorite color is red!";
16                     break;
17                 case "blue":
18                     echo "Your favorite color is blue!";
19                     break;
20                 case "green":
21                     echo "Your favorite color is green!";
22                     break;
```

PHP switch...case example

http://localhost/Php\_switch/index.php

100%

Your favorite color is neither red, blue, nor green!

```
1 <!DOCTYPE html>
2 <!--
3  PHP switch...case example
4  -->
5 <html>
6 <head>
7     <meta charset="UTF-8">
8     <title>PHP switch...case example</title>
9 </head>
10 <body>
11     <?php
12         $favcolor = "red";
13         switch ($favcolor) {
14             case "red":
15                 echo "Your favorite color is red!";
16                 break;
17             case "blue":
18                 echo "Your favorite color is blue!";
19                 break;
20             case "green":
21                 echo "Your favorite color is green!";
22                 break;
23             default:
24                 echo "Your favorite color is neither red, blue, nor green!";
25         }
26     ?>
27 </body>
28 </html>
```

```
9      </head>
10     <body>
11         <?php
12             $favcolor = "red";
13             switch ($favcolor) {
14                 case "red":
15                     echo "Your favorite color is red!";
16                     break;
17                 case "blue":
18                     echo "Your favorite color is blue!";
19                     break;
20                 case "green":
21                     echo "Your favorite color is green!";
```

PHP switch...case example

http://localhost/Php\_switch/index.php

100%

Your favorite color is red!

9

-

</head>

10

-

<body>

11

-

<?php

12

-

\$favcolor = "black";

13

-

switch (\$favcolor) {

14

-

case "red":

15

-

echo "Your favorite color is red!";

16

-

break;

17

-

case "blue":

18

-

echo "Your favorite color is blue!";

19

-

break;

20

-

case "green":

21

-

echo "Your favorite color is green!";

22

-

break;

Find Selection (Ctrl+F3)

PHP switch...case example

http://localhost/Php\_switch/index.php

100%

Your favorite color is neither red, blue, nor green!

# Runtime Errors

# Catching Runtime Errors

- When executing JavaScript or PHP program code different runtime errors can occur
  - errors include
    - Fail to connect to the database
    - Fail to run the SQL statement
    - Invalid input by a user (including criminal attempts to access a database)
    - Runtime errors (network issues of server down)
- To catch errors use:
  - The **try** statement tests a block of code for runtime errors
  - The **catch** statement handles the runtime error
  - The **throw** statement creates custom errors
  - The **finally** statement execute JavaScript program code after the try and catch methods regardless of the result



# Try...catch block

- The **try** statement defines a block of code to be tested for errors while it is being executed (at *runtime*)
- The **catch** statement defines a block of code to be executed if an error occurs in the **try** block.
- The statements **try** and **catch** come in pairs

```
try {  
    Block of code to try  
}  
catch(err) {  
    Block of code to handle errors  
}
```

# JavaScript `try...catch...finally` block

- The syntax for a `try...catch...finally` block

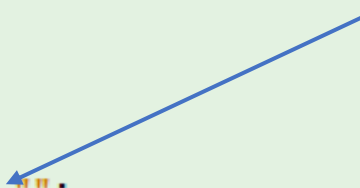
```
try {  
    statements  
}  
catch ( arguments ) {  
}  
finally {  
    statements  
}
```

```

9      <meta name="viewport" content="width=device-width, initial-scale=1.0">
10     </head>
11     <body>
12         <p>Please input a number between 5 and 10:</p>
13         <input id="demo" type="text">
14         <button type="button" onclick="myFunction()">Test Input</button>
15         <p id="p01"></p>
16         <script>
17             function myFunction() {
18                 var message, x;
19                 message = document.getElementById("p01");
20                 message.innerHTML = "";
21                 x = document.getElementById("demo").value;
22                 try {
23                     if(x == "") throw "is empty";
24                     if(isNaN(x)) throw "is not a number";
25                     x = Number(x);
26                     if(x > 10) throw "is too high";
27                     if(x < 5) throw "is too low";
28                 }
29                 catch(err) {
30                     message.innerHTML = "Input " + err;
31                 }
32                 finally {
33                     document.getElementById("demo").value = "";
34                 }
35             }
36         </script>
37     </body>
38 </html>

```

The value is set to an empty string



# PHP **try...catch...finally** block

```
<?php
//try block
try {
    //code that can throw exception
}
//catch block
catch (Exception $e) {
    //code to print exception caught in the block
}
//finally block
finally {
    //any code that will always execute
}
?>
```

# PHP `try...catch...finally` block

- In the following slide consider the PHP script:
  - Lines: 22 – 25
    - Here we are trying to connect to a MySQL database
    - We may use a `try...catch...finally` block to attempt to make a connection
    - Test for any errors (e.g., fail to connect to the database)
    - Output an error message if the connection failed
    - A successful connection would result in the PHP code in line 26 (confirm connection)
  - Lines 30 – 40
    - Here we are trying to retrieve data from a MySQL database
    - We may use a `try...catch...finally` block to attempt access the database and retrieve the data specified in the SQL structured query
    - Test for any errors (e.g., fail to retrieve the data)
    - Output an error message if the data request failed
    - Successful retrieval would result in the PHP code in lines 41-43 (the retrieval achieved)

```

15 <?php
16 $dbhost = 'localhost:3306'; $dbuser = 'philip';
17 $dbpass = 'philip'; $db = 'test';
18 //SQL statements: $sql and $sqla
19 $sql = 'SELECT id, f_name, s_name, email FROM contacts';
20 $sqla = 'SELECT * FROM contacts';
21 //connect MySQL database
22 $conn = mysqli_connect($dbhost, $dbuser, $dbpass);
23 if(!$conn) {
24     Die_error('Connection failed!: ' .mysqli_errno());
25 }
26 echo 'Database connected <br>';
27 mysqli_select_db($conn, $db);
28 echo 'database selected: ' . $db.<br>';
29 echo ($sqla.<br>'. '-----<br>');
30 $retval = mysqli_query($conn, $sqla);
31 if(!$retval) {
32     die('Could not get data');
33 }
34 while($row = mysqli_fetch_assoc($retval)) {
35     echo "id: {$row['id']}<br>".
36         "f_name: {$row['f_name']}<br>".
37         "s_name: {$row['s_name']}<br>".
38         "email:  {$row['email']}<br>".
39         "-----<br>";
40 }
41 mysqli_free_result($retval);
42 echo "fetched data successfully\n";
43 mysqli_close($conn);
44 ?>

```

The **test** database  
used in the example  
PHP script

SQL statements  
**\$sql** / **\$sqla**

SQL statement  
used **\$sqla**

Two worked Examples  
of  
**try...catch...finally**  
blocks in PHP

# Example One



Projects xFilesServices

PHP\_try\_1

Source Files

index.php

styles.css

Include Path

C:\xampp\php

Navigation x

Elements

body

div

h2

Rules

body

div

h2

index.php xstyles.css x

SourceHistory

1

2

3

4

5

6

7

8

9

10

11

12

body {

background-color: linen;

}

h2 {

color: blue;

margin-left: 20px;

}

div {

font-family: monospace;

font-size: 12px;

}

```

1      <!DOCTYPE html>
2      <!--
3      PHP program: PHP_try_1
4      A PHP script to demonstrate the try...catch...finally block
5      The program tests a number and outputs a correct result or an error message
6      Author: Philip Moore
7      -->
8      <html>
9          <head>
10             <meta charset="UTF-8">
11             <title>A PHP script to demonstrate the try...catch...finally block</title>
12             <link rel="stylesheet" href="styles.css">
13          </head>
14          <body>
15              <div>
16                  <h2>
17                      A PHP script to demonstrate the try...catch...finally block <br>
18                      The program tests a number and outputs a correct result or an error message
19                  </h2>
20              </div>
21          <?php

```

```

21  -      <?php
22      //user-defined function with an exception
23  -      function checkNumber($num) {
24  -          if($num>=2) {
25              //throw an exception
26              throw new Exception("<br>Value must be less than 2");
27          }
28          return true;
29      }
30      //trigger an exception in a "try" block
31  -      try {
32          $n1 = 1; //the integer number being tested
33          $n2 = 12; //the integer number being tested
34          $checkNumber = checkNumber($n1);
35          //If the exception throws, below text will not be display
36          echo 'If you see this text, the passed value is less than 2';
37      }
38      //catch exception
39  -      catch (Exception $e) {
40          echo 'Exception Message: ' . $e->getMessage();
41      }
42  -      finally {
43          echo '</br> The finally block always executes.';
44      }
45      ?>
46      </body>
47  </html>

```



**A PHP script to demonstrate the try...catch...finally block**  
**The program tests a number and outputs a correct result or an error message**

If you see this text, the passed value is less than 2  
The finally block always executes.

```

21 <?php
22     //user-defined function with an exception
23     function checkNumber($num) {
24         if($num>=2) {
25             //throw an exception
26             throw new Exception("<br>Value must be less than 2");
27         }
28         return true;
29     }
30     //trigger an exception in a "try" block
31     try {
32         $n1 = 1; //the integer number being tested
33         $n2 = 12; //the integer number being tested
34         $checkNumber = checkNumber($n2);
35         //If the exception throws, below text will not be display
36         echo 'If you see this text, the passed value is less than 2';
37     }
38     //catch exception
39     catch (Exception $e) {
40         echo 'Exception Message: ' . $e->getMessage();
41     }
42     finally {
43         echo '</br> The finally block always executes.';
44     }
45     ?>
46 </body>
47 </html>

```



**A PHP script to demonstrate the try...catch...finally block**

**The program tests a number and outputs a correct result or an error message**

Exception Message:

Value must be less than 2

The finally block always executes.

# Example Two

Projects x Files Services —

PHP\_try\_2

- Source Files
  - index.php
  - styles.css
- Include Path
  - C:\xampp\php

Navigat... x —

Elements

- body
- div
- h2

Rules

- body
- div
- h2

index.php x styles.css x

Source History

```
1 body {  
2     background-color: linen;  
3 }  
4 h2 {  
5     color: blue;  
6     margin-left: 20px;  
7 }  
8 div {  
9     font-family: monospace;  
10    font-size: 10px;  
11 }  
12  
13  
14
```



```

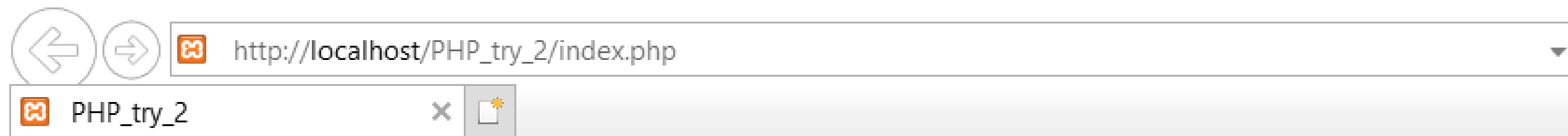
1  <!DOCTYPE html>
2  <!--
3  PHP program: PHP_try_2
4  A second PHP script to test the try...catch...finally block
5  A script to test for even and odd numbers using the modulus operator
6  Author: Philip Moore
7  -->
8  <html>
9      <head>
10         <meta charset="UTF-8">
11         <title>PHP_try_2</title>
12         <link rel="stylesheet" href="styles.css">
13     </head>
14     <body>
15         <div>
16             <h2>
17                 A PHP script to test the try...catch...finally block <br>
18                 A script to test for even and odd numbers using the modulus operator
19             </h2>
20         </div>
21     <?php

```

```

21 <?php
22     //user-defined function with an exception
23     function testEven($num) {
24         //trigger throw an exception in a "try" block
25         try {
26             //the if statement uses the modulus operator
27             if($num%2 == 1) {
28                 //throw an exception if the number is an ODD number
29                 throw new Exception("The passed number is an ODD Number");
30             }
31             //if the number is an EVEN number the following message will be printed
32             echo '</br> If you see this text, the passed value is an EVEN Number </b>';
33         }
34         //catch the exception and send an error message to the output
35         catch (Exception $e) {
36             echo '</br> Exception Message: ' . $e->getMessage() . '</b>';
37         }
38         finally {
39             echo '</br> The code or message in the finally block always executes.';
40         }
41     }
42     echo 'The output for an ODD Number';
43     //calls to the testEven() function with parameners
44     $n1 = 19;
45     $n2 = 12;
46     testEven($n1);
47     echo '</br></br>';
48     echo 'The output for an EVEN Number';
49     testEven($n2);
50     ?>
51 </body>
52 </html>
53

```



**A PHP script to test the try...catch...finally block**

**A script to test for even and odd numbers using the modulus operator**

The output for an ODD Number

Exception Message: The passed number is an ODD Number

The code or message in the finally block always executes.

The output for an EVEN Number

If you see this text, the passed value is an EVEN Number

The code or message in the finally block always executes.

# A worked Example

## Pass Data from JavaScript to PHP

Projects x Files Services —

JS\_var\_to\_PHP

- Source Files
  - index.php
  - styles.css
- Include Path
  - C:\xampp\php

Navigat... x —

Elements

- body
- div
- h1

Rules

- body
- div
- h1

index.php x styles.css x

Source History

```
1 body {
2     background-color: linen;
3 }
4 h1 {
5     color: blue;
6     margin-left: 20px;
7 }
8 div {
9     font-family: monospace;
10    font-size: 10px;
11 }
12
```

```
1 <!DOCTYPE html>
2 <!--
3 PHP program: JS_var_to_PHP
4 A simple demonstration showing how to pass a JavaScript variable to PHP script
5 The JavaScript variable passed to the PHP script is available to the PHP script
6 There are alternative methods implemented with form input where required
7 -->
8 <html>
9     <head>
10         <meta charset="UTF-8">
11         <title>Pass JS var to PHP</title>
12     <script>
13         function passJS () {
14             var js_var = 100;
15             //var js_var = 10;
16             return js_var;
17         }
```

```

8 <html>
9     <head>
10         <meta charset="UTF-8">
11         <title>Pass JS var to PHP</title>
12         <script>
13             function passJS () {
14                 var js_var = 100;
15                 //var js_var = 10;
16                 return js_var;
17             }
18         </script>
19         <link rel="stylesheet" href="styles.css">
20     </head>
21     <body>
22         <div> <!-- note the use of style with an external CSS file -->
23             <h1>
24                 Passing JavaScript variables to PHP
25             </h1>
26         </div>
27         <?php
28             $passVar = "<script>document.write(passJS());</script> <br>";
29             echo 'The value of the passed JavaScript variable is: ' . $passVar;
30         ?>
31     </body>
32 </html>

```



## Passing JavaScript variables to PHP

The value of the passed JavaScript variable is: 100



```

8 <html>
9     <head>
10         <meta charset="UTF-8">
11         <title>Pass JS var to PHP</title>
12         <script>
13             function passJS () {
14                 //var js_var = 100;
15                 var js_var = 10;
16                 return js_var;
17             }
18         </script>
19         <link rel="stylesheet" href="styles.css">
20     </head>
21     <body>
22         <div> <!-- note the use of style with an external CSS file -->
23             <h1>
24                 Passing JavaScript variables to PHP
25             </h1>
26         </div>
27         <?php
28             $passVar = "<script>document.write(passJS());</script> <br>";
29             echo 'The value of the passed JavaScript variable is: '.$passVar;
30         ?>
31     </body>
32 </html>

```



Pass JS var to PHP



localhost/JS\_var\_to\_PHP/index.php

## Passing JavaScript variables to PHP

The value of the passed JavaScript variable is: 10

# Review

- In this session introduced:
  - The PHP syntax with the similarities and differences between JavaScript and PHP
  - Selection (conditional statements)
  - Catching runtime errors with worked example programs
  - Passing data between JavaScript and PHP
- There are similarities and differences between JavaScript and PHP
  - The differences are mainly in the language syntax
  - Using the incorrect syntax will produce errors which are hard to find
- In the following tutorials we extend our introduction of PHP