

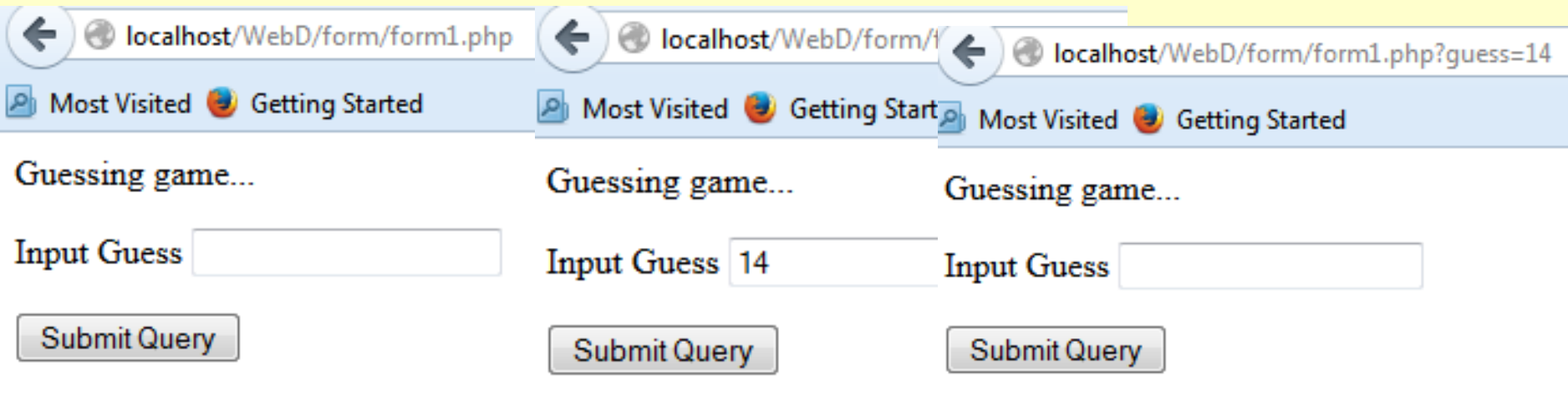
DT228/2 Web Development

Forms and PHP

Forms Submit Data

form1

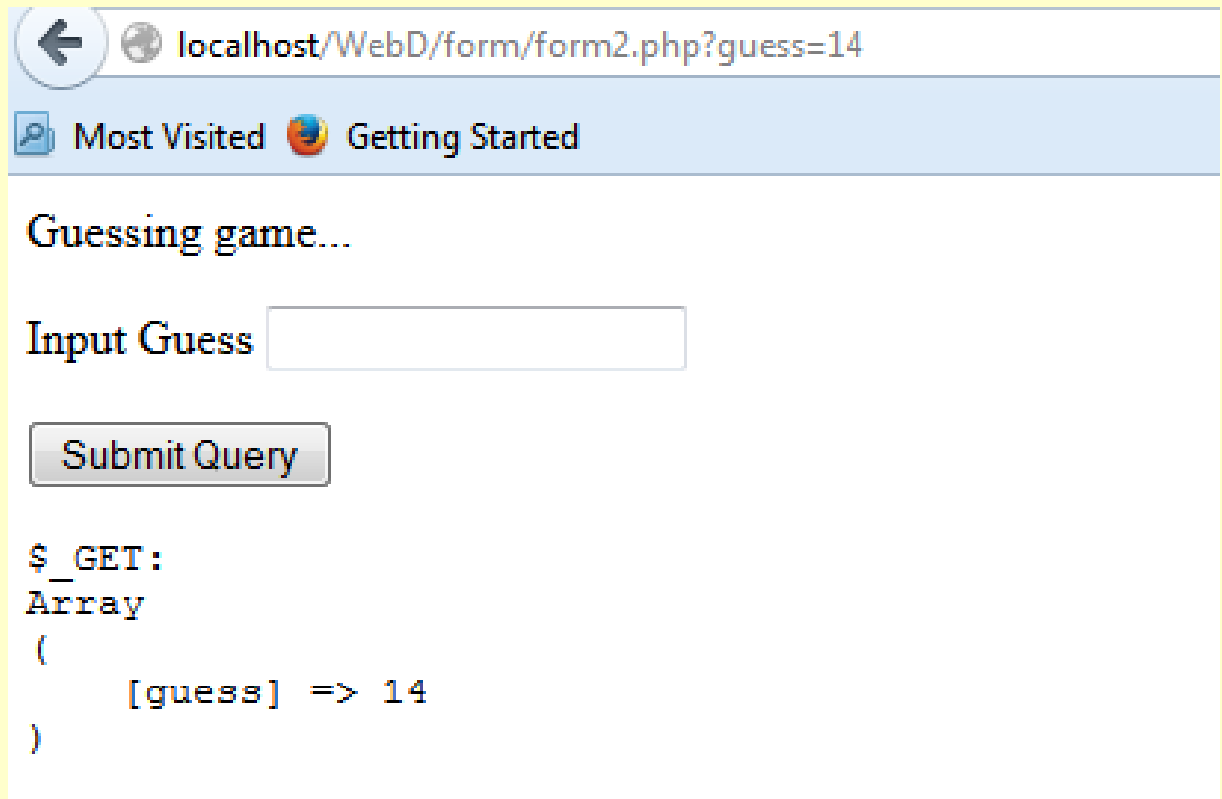
```
<p>Guessing game...</p>
<form>
<p><label for="guess">Input Guess</label>
<input type="text" name="guess"
id="guess"/></p>
<input type="submit"/>
</form>
```



`$_GET` and `$_POST`

- PHP loads the values for the URL parameters into an array called `$_GET` and the POST parameters into an array called `$_POST`
- There is another array called `$_REQUEST` which merges GET and POST data

```
<p>Guessing game...</p>
<form>
<p><label for="guess">Input Guess</label>
<input type="text" name="guess"
id="guess"/></p>
<input type="submit"/>
</form>
<pre>
$_GET:
<?php
print_r($_GET);
?>
</pre>>
```



← localhost/WebD/form/form2.php?guess=14

🔍 Most Visited 🌐 Getting Started

Guessing game...

Input Guess

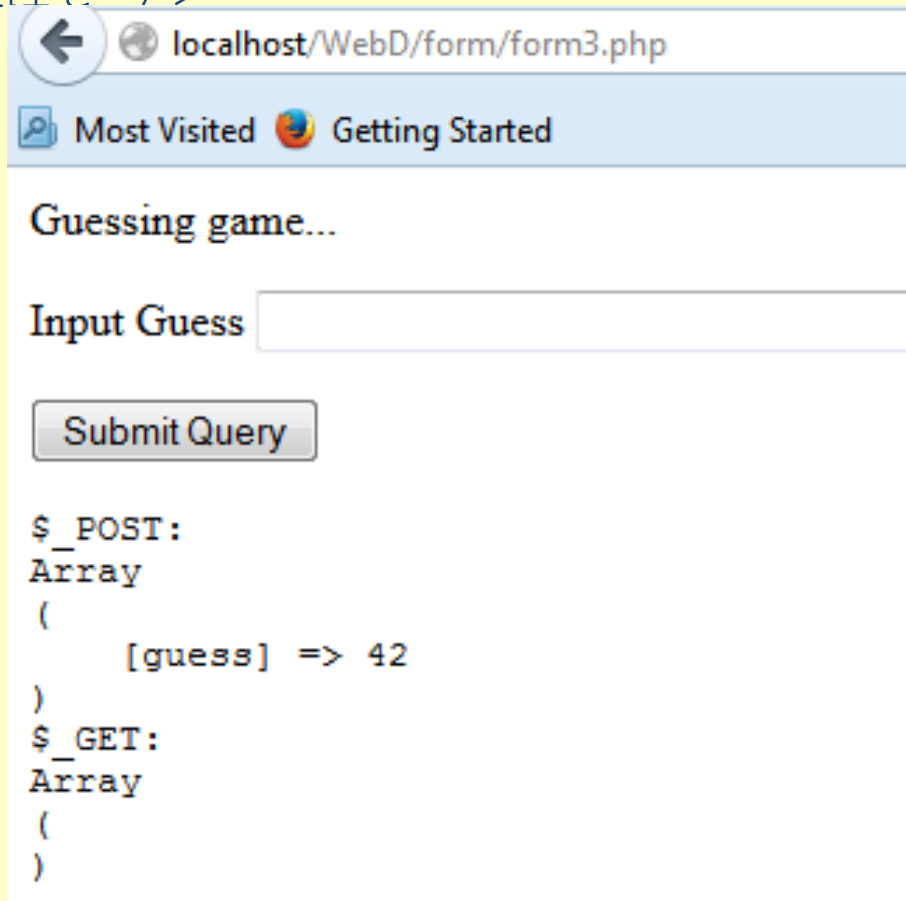
Submit Query

\$_GET:
Array
(
 [guess] => 14
)

```
<p>Guessing game...</p>
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" size="40"
id="guess"/></p>
<input type="submit"/>
</form>

<pre>
$_POST:
<?php
print_r($_POST);
?>

$_GET:
<?php
print_r($_GET);
?>
</pre>
```



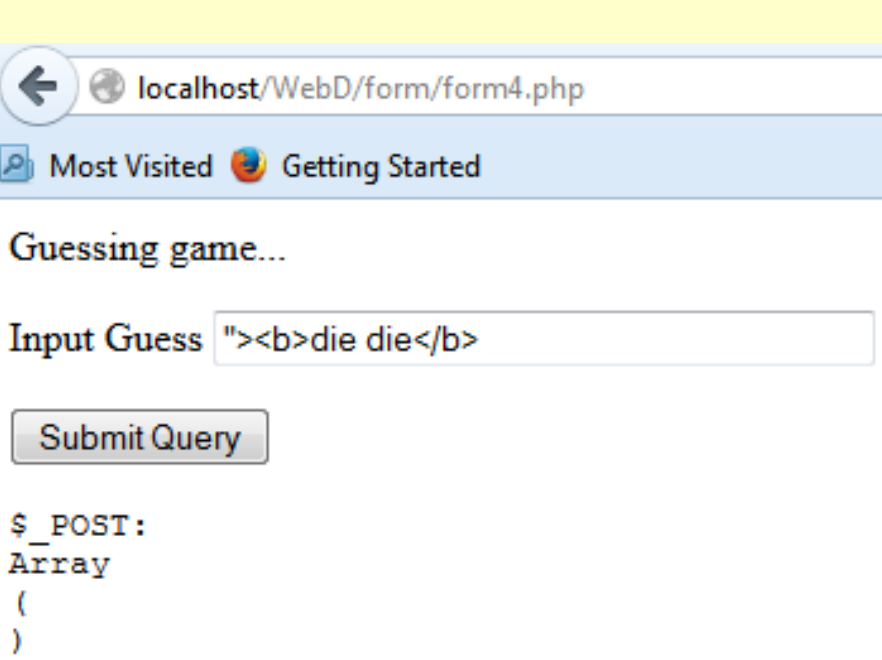
form4

```
<?php
$oldguess = isset($_POST['guess']) ?
$_POST['guess'] : '';
?>

<p>Guessing game...</p>
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess"
size="40"
<?php
echo 'value="' . $oldguess. '"';
?>
/></p>
<input type="submit"/>
</form>
```

Hygiene Alert!

- What happens when we use an HTML character in a form field value??



localhost/WebD/form/form4.php

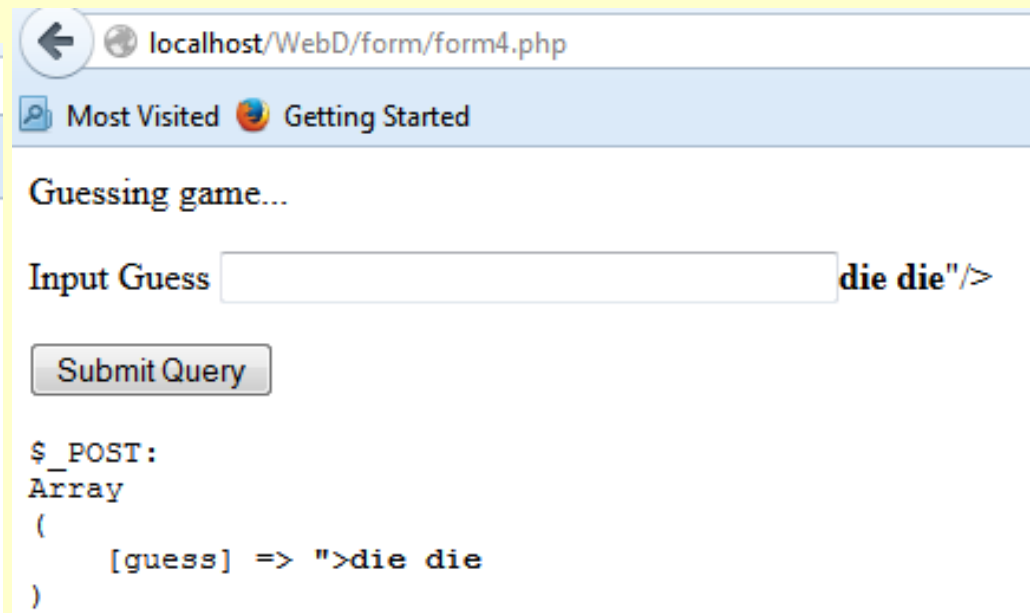
Most Visited Getting Started

Guessing game...

Input Guess ">die die"

Submit Query

```
$_POST:
Array
(
)
```



localhost/WebD/form/form4.php

Most Visited Getting Started

Guessing game...

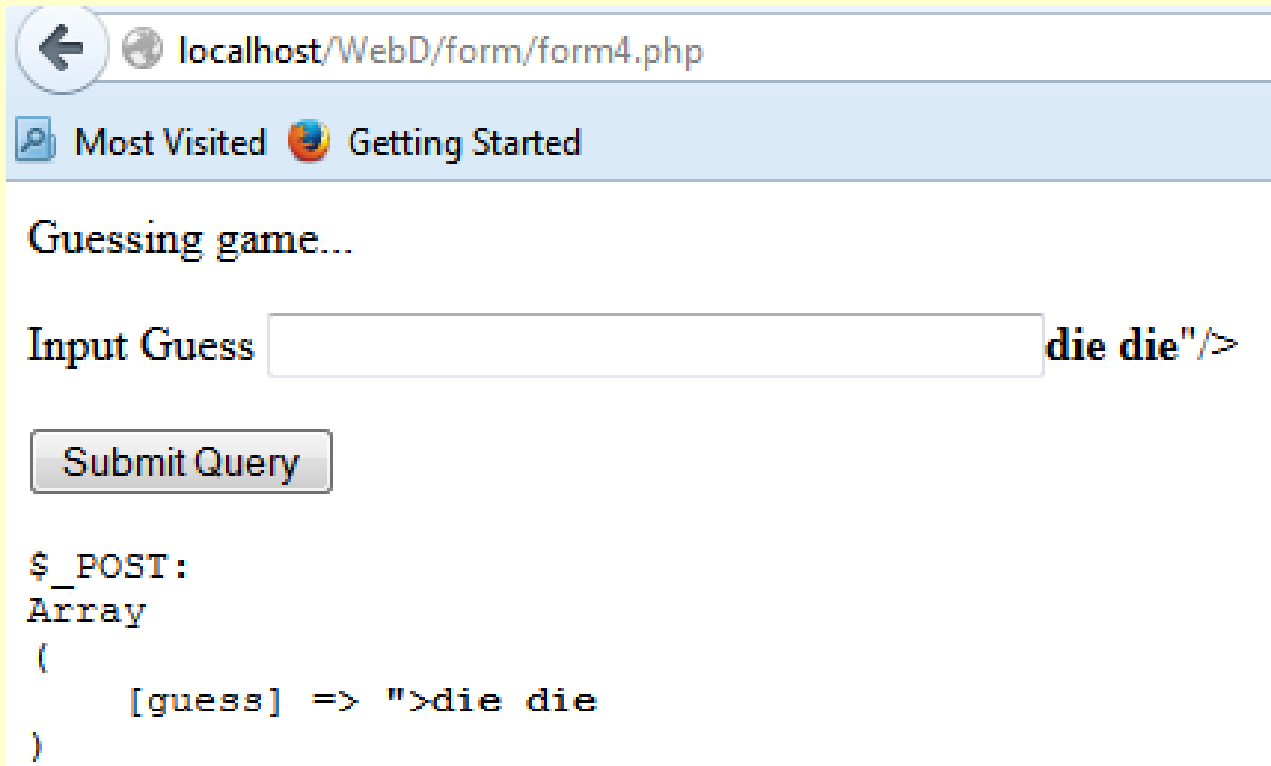
Input Guess die die"/>

Submit Query

```
$_POST:
Array
(
    [guess] => ">die die"
)
```

form4

```
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess"
value=""><b>DIE DIE</b> " /></p>
<input type="submit"/>
</form>
```



The screenshot shows a web browser window with the address bar displaying 'localhost/WebD/form/form4.php'. Below the address bar, there are tabs for 'Most Visited' and 'Getting Started'. The main content area displays the text 'Guessing game...'. Below this, there is a form with the label 'Input Guess' and a text input field containing the value '>die die'. To the right of the input field, the text '>die die' is displayed. Below the input field, there is a button labeled 'Submit Query'. At the bottom of the page, the output of the form is displayed as a PHP array: '\$_POST: Array ([guess] => ">die die'.

localhost/WebD/form/form4.php

Most Visited Getting Started

Guessing game...

Input Guess >die die

Submit Query

\$_POST:
Array
(
 [guess] => ">die die
)

To The Rescue: htmlentities()

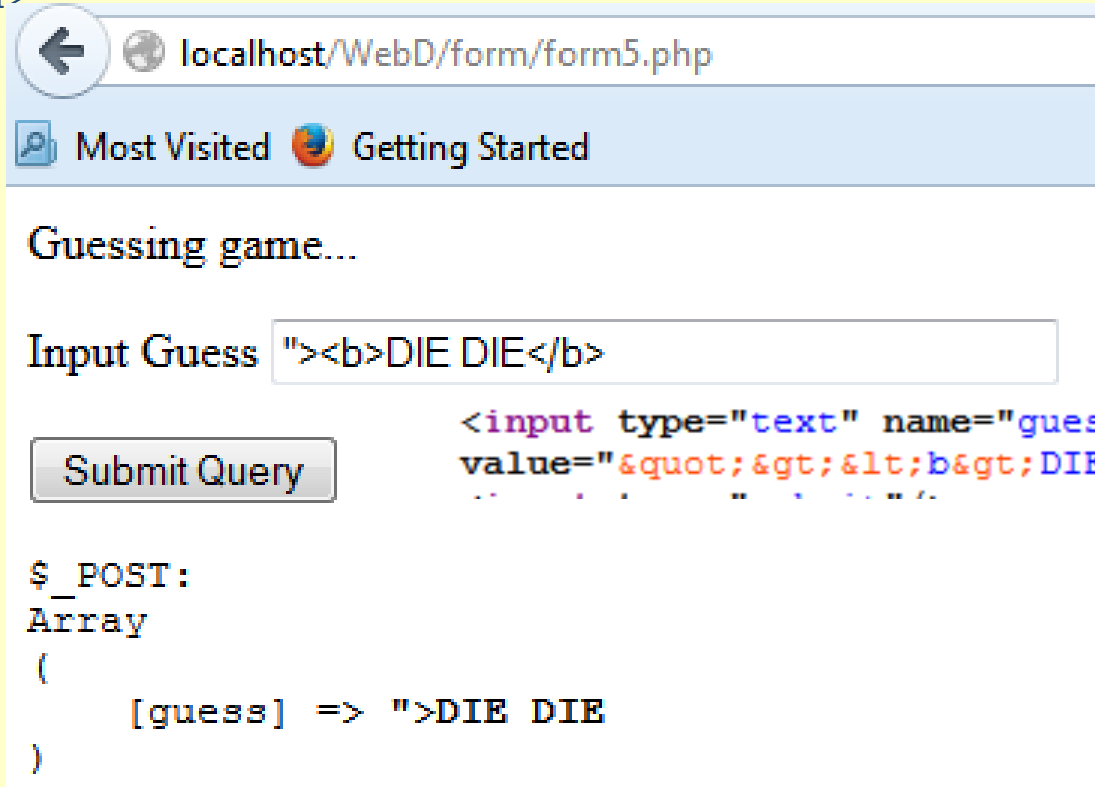
form5

```
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess"
size="40"
<?php
echo 'value="' . htmlentities($oldguess) . '"';
?>
/></p>
<input type="submit"/>
</form>
```

```

<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess" size="40"
<?php
echo 'value="' . htmlentities($oldguess) . "'";
?>
/></p>
<input type="submit"/>
</form>

```



The screenshot shows a web browser window with the address bar displaying 'localhost/WebD/form/form5.php'. Below the address bar is a navigation bar with 'Most Visited' and 'Getting Started' links. The main content area is titled 'Guessing game...' and contains an 'Input Guess' label followed by a text input field. The input field contains the text '>DIE DIE'. Below the input field is a 'Submit Query' button. To the right of the button, the PHP code for the input field is shown: `<input type="text" name="guess" id="guess" size="40" value="'>DIE DIE'"/></p>`. Below the form, the PHP output is shown: `$_POST: Array ([guess] => ">DIE DIE")`.

Processing POST Data

- There are many patterns for handling POST data
- No "rules" just "suggestions"

```
<?php
$guess = '';
$message = false;
if ( isset($_POST['guess']) ) {
    // Trick for integer / numeric parameters
    $guess = $_POST['guess'] + 0;
    if ( $guess == 42 ) {
        $message = "Great job!";
    } else if ( $guess < 42 ) {
        $message = "Too low";
    } else {
        $message = "Too high...";
    }
}
?>

<html>
<head>
<title>A Guessing game</title>
</head>
<body style="font-family: sans-serif;">
<p>Guessing game...</p>
<?php
if ( $message !== false ) {
    echo("<p>$message</p>\n");
}
?>
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess" size="40"
<?php
echo 'value="' . htmlentities($guess) . '"';
?>
/></p>
<input type="submit"/>
</form>
</body>
```

Completely
process incoming
POST data (if any) -
produce no output.

Produce the page
output.

```
<?php
$guess = '';
$message = false;
if ( isset($_POST['guess']) ) {
// Trick for integer / numeric parameters
$guess = $_POST['guess'] + 0;
if ( $guess == 42 ) {
$message = "Great job!";
} else if ( $guess < 42 ) {
$message = "Too low";
} else {
$message = "Too high...";
}
}
?>
```

```
<html>
<head>
<title>A Guessing game</title>
</head>
<body style="font-family: sans-serif;">
<p>Guessing game...</p>
<?php
if ( $message !== false ) {
echo("<p>$message</p>\n");
}
?>
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess" size="40"
<?php
echo 'value="' . htmlentities($guess) . '"';
?>
/></p>
<input type="submit"/>
</form>
</body>
```

guess.php

```

<?php
$guess = '';
$message = false;
if ( isset($_POST['guess']) ) {
// Trick for integer / numeric
$guess = $_POST['guess'] + 0;
if ( $guess == 42 ) {
$message = "Great job!";
} else if ( $guess < 42 ) {
$message = "Too low";
} else {
$message = "Too high...";
}
}
?>

```

```

<html>
<head>
<title>A Guessing game</title>
</head>
<body style="font-family: sans-
<p>Guessing game...</p>
<?php
if ( $message !== false ) {
echo("<p>$message</p>\n");
}
?>
<form method="post">
<p><label for="guess">Input Gue
<input type="text" name="guess"
<?php
echo 'value="' . htmlentities($
?>
/></p>
<input type="submit"/>
</form>
</body>

```

```

<?php
$guess = '';
$message = false;
if ( isset($_POST['guess']) ) {
// Trick for integer / numeric
parameters
$guess = $_POST['guess'] + 0;
if ( $guess == 42 ) {
$message = "Great job!";
} else if ( $guess < 42 ) {
$message = "Too low";
} else {
$message = "Too high...";
}
}
?>
<html>
.....

```

```

<?php
$guess = '';
$message = false;
if ( isset($_POST['guess']) ) {
// Trick for integer / numeric
$guess = $_POST['guess'] + 0;
if ( $guess == 42 ) {
$message = "Great job!";
} else if ( $guess < 42 ) {
$message = "Too low";
} else {
$message = "Too high...";
}
}
?>

```

```

<html>
<head>
<title>A Guessing game</title>
</head>
<body style="font-family: sans-
<p>Guessing game...</p>
<?php
if ( $message !== false ) {
echo("<p>$message</p>\n");
}
?>
<form method="post">
<p><label for="guess">Input Gue
<input type="text" name="guess"
<?php
echo 'value="' . htmlentities($
?>
/></p>
<input type="submit"/>
</form>
</body>

```

```

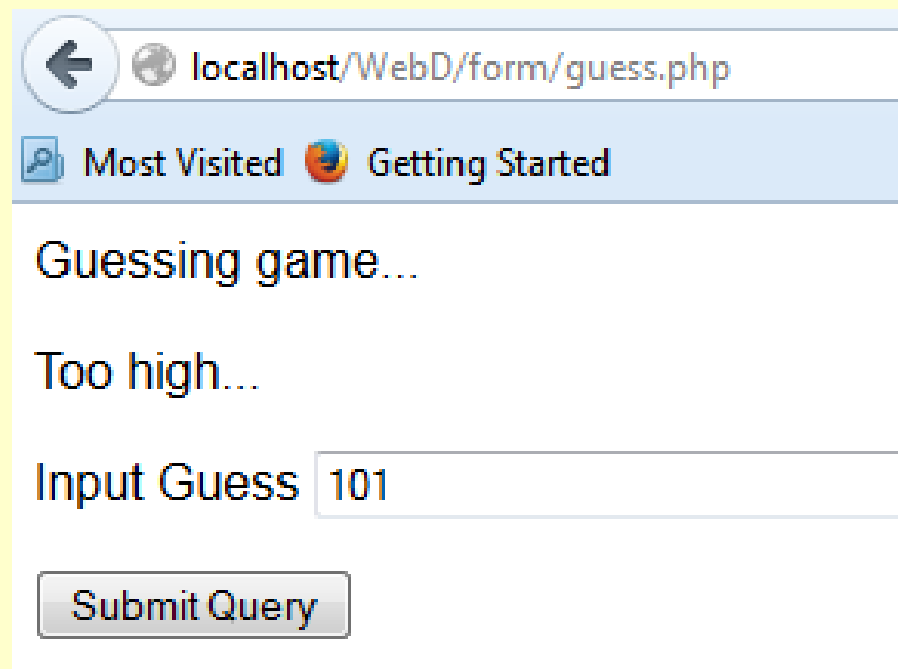
...?>
<html>
<head>
<title>A Guessing game</title>
</head>
<body style="font-family: sans-serif;">
<p>Guessing game...</p>
<?php
if ( $message !== false ) {
echo("<p>$message</p>\n");
}
?>
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess"
size="40"
<?php
echo 'value="' . htmlentities($guess) .
'";
?>
/></p>
<input type="submit"/>
</form>
</body>

```

```
<?php
$guess = '';
$message = false;
if ( isset($_POST['guess']) ) {
// Trick for integer / numeric
parameters
$guess = $_POST['guess'] + 0;
if ( $guess == 42 ) {
$message = "Great job!";
} else if ( $guess < 42 ) {
$message = "Too low";
} else {
$message = "Too high...";
}
}
?>
```

```
<html>
```

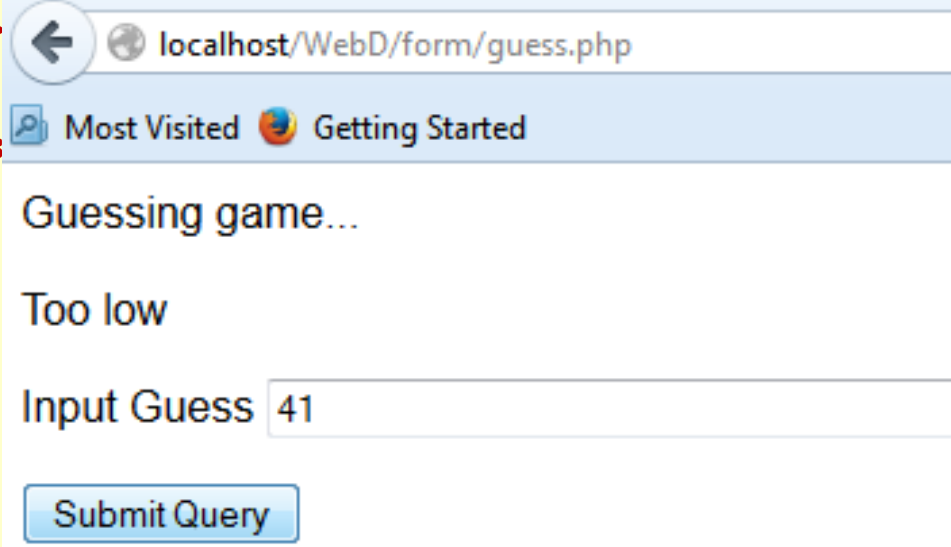
```
.....
```



A screenshot of a web browser window. The address bar shows 'localhost/WebD/form/guess.php'. Below the address bar is a navigation bar with 'Most Visited' and 'Getting Started' links. The main content area displays the text 'Guessing game...' followed by 'Too high...'. Below this is an input field labeled 'Input Guess' containing the number '101'. At the bottom of the form is a button labeled 'Submit Query'.

?>

```
<html>
<head>
<title>A Guessing game</title>
</head>
<body style="font-family: sans"
<p>Guessing game...</p>
<?php
if ( $message !== false ) {
echo("<p>$message</p>\n");
}
?>
<form method="post">
<p><label for="guess">Input Guess</label>
<input type="text" name="guess" id="guess"
size="40"
<?php
echo 'value="' . htmlentities($guess) . '"';
?>
/></p>
<input type="submit"/>
</form>
</body>
```



The screenshot shows a web browser window with the address bar displaying 'localhost/WebD/form/guess.php'. Below the address bar, there are two tabs: 'Most Visited' and 'Getting Started'. The main content area of the browser shows the output of the PHP script. It displays 'Guessing game...' followed by 'Too low' in a larger font. Below this, there is a text input field labeled 'Input Guess' with the value '41'. At the bottom of the form, there is a blue button labeled 'Submit Query'.

guess.php

Other Input Type

- Text
- Password
- Radio Button
- Check Box
- Select / Drop-Down
- TextArea

Many field types...

Account:

Password:

Nick Name:

Preferred Time:
☐ AM
☒ PM

Classes taken:
☒ CMPU2022 - Web Development2
☐ CMPU2007 - Database1
☐ CMPU2012 - Mathematics

Which drink:

Which snack:

Tell us about yourself:

Which are awesome?

[moreform.php](#)

```
<p><label for="inp01">Account:</label>
<input type="text" name="account" id="inp01"
size="40" ></p>
<p><label for="inp02">Password:</label>
<input type="password" name="pw" id="inp02"
size="40" ></p>
<p><label for="inp03">Nick Name:</label>
<input type="text" name="nick" id="inp03"
size="40" ></p>
```

Many field types...

Account:

Password:

Nick Name:

```
$_POST:
Array
(
    [account] => Xiaoling
    [pw] => 12345
    [nick] => Cindy
    [when] => pm
    ...
)
```

moreform.php

```
<p>Preferred Time:<br/>
<input type="radio" name="when" value="am">AM<br>
<input type="radio" name="when" value="pm" checked>PM</p>
```

Preferred Time:

☐ AM

☒ PM

```
$_POST:
Array
(
    ...
    [nick] => Cindy
    [when] => pm
    [class] => CMPU2022
    ...
)
```

```
<p>Classes taken:<br/>
<input type="checkbox" name="class" value="CMPU2022"
checked>
CMPU2022 - Web Development2<br>
<input type="checkbox" name="class" value="CMPU2007">
CMPU2007 - Database1<br>
<input type="checkbox" name="class" value="CMPU2012">
CMPU2012 - Mathematics<br></p>
```

Classes taken:

- ☒ CMPU2022 - Web Development2
- ☐ CMPU2007 - Database1
- ☐ CMPU2012 - Mathematics

```
$_POST:
Array
(
    ...
    [when] => pm
    [class] => CMPU2022
    [drink] => 0
    ...
)
```

moreform.php

```
<p><label for="inp06">Which drink:
<select name="drink" id="inp06">
<option value="0">-- Please Select --</option>
<option value="1">Coke</option>
<option value="2">Pepsi</option>
<option value="3">Mountain Dew</option>
<option value="4">Orange Juice</option>
<option value="5">Lemonade</option>
</select>
</p>
```

— CMPU 2022 —

Which drink:

```
$_POST:
Array
(
    ...
    [class] => CMPU2022
    [drink] => 0
    [snack] => peanuts
    ...
)
```

```
<p><label for="inp07">Which snack:
<select name="snack" id="inp07">
<option value="">-- Please Select --</option>
<option value="crisps">Crisps</option>
<option value="peanuts" selected>Peanuts</option>
<option value="cookie">Cookie</option>
</select></p>
```

Which drink:

Which snack:

Tell us about yourself:

```
$_POST:
Array
(
    ...
    [drink] => 0
    [snack] => peanuts
    ...
)
```

```
<p><label for="inp08">Tell us about yourself:<br/>
<textarea rows="5" cols="40" id="inp08" name="about">
I love building web sites in PHP and MySQL.
</textarea></p>
```

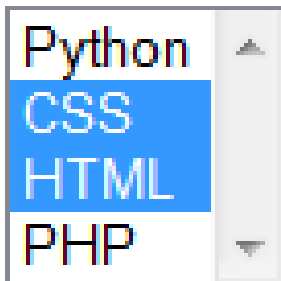
Tell us about yourself:

I love building web sites in PHP and MySQL.

```
$_POST:
Array
(
    ...
    [about] => I love
building web sites in
PHP and MySQL.
    ...
)
```

```
<p><label for="inp09">Which are awesome?<br/>
<select multiple="multiple" name="code[]" id="inp09">
<option value="python">Python</option>
<option value="css">CSS</option>
<option value="html">HTML</option>
<option value="php">PHP</option>
</select>
```

Which are awesome?

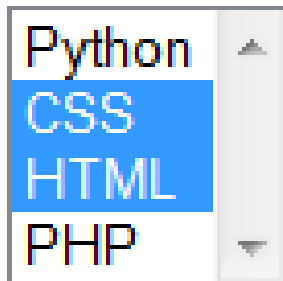
A screenshot of a web form. At the top, the text "Which are awesome?" is displayed. Below it is a multiple-select menu with four options: "Python", "CSS", "HTML", and "PHP". The "CSS" option is currently selected and highlighted in blue. Below the menu are two buttons: "Submit" and "Escape".

```
$_POST:
Array
(
...
[code] => Array
            (0) => css
            (1) => html
)
[dopost] => Submit
...
)
```



```
<p>
<input type="submit" name="dopost" value="Submit"/>
<input type="button"
onclick="location.href='http://www.php-intro.com/';
return false;"value="Escape">
</p>
```

Which are awesome?



Python
CSS
HTML
PHP

Submit

Escape

```
$_POST:
Array
(
...
[dopost] => Submit
...
)
```

HTML5 Input Types

- HTML5 defines new input types
- Not all browsers support all input types
- The fall back to type="text"
- http://www.w3schools.com/html/html5_form_input_types.asp

HTML5 Input Types

```
<?php
print_r($_POST);
?>
<form method="post">
Select your favorite color:
<input type="color" name="favcolor"
value="#0000ff"><br/>
Birthday:
<input type="date" name="bday" value="2013-
09-02"><br/>
E-mail:
<input type="email" name="email"><br/>
Quantity (between 1 and 5):
<input type="number" name="quantity"
min="1" max="5"><br/>
Add your homepage:
<input type="url" name="homepage"><br>
<input type="submit"/>
</form>
```

HTML5 Input Types

← → ↻ ☰ 🌐 localhost/WebD/form/html5.php

Array ([favcolor] => #0000ff [bday] => 2013-09-02 [email] => cindy.liu@dit.ie [quantity] => 4 [homepage] => http://www.dit.ie)

Select your favorite color:

Birthday: ▼

E-mail:

Quantity (between 1 and 5):

Add your homepage:

Summary

- Forms, \$_GET and \$_POST
- Sanitizing HTML
- Form fields
- New form fields in HTML5