

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <script>
6.
7.         function greet()
8.         {
9.             alert('hello, ' + document.getElementById('name').value + '!');
10.        }
11.
12.     </script>
13.     <title>dom-0</title>
14. </head>
15. <body>
16.   <form id="demo" onsubmit="greet(); return false;">
17.     <input id="name" placeholder="Name" type="text"/>
18.     <input type="submit"/>
19.   </form>
20. </body>
21. </html>
```

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <title>dom-1</title>
6.   </head>
7.   <body>
8.     <form id="demo">
9.       <input id="name" placeholder="Name" type="text"/>
10.      <input type="submit"/>
11.    </form>
12.    <script>
13.
14.      document.getElementById('demo').onsubmit = function() {
15.        alert('hello, ' + document.getElementById('name').value + '!');
16.        return false;
17.      };
18.
19.    </script>
20.  </body>
21. </html>
```

```
1. <!DOCTYPE html>
2.
3. <html>
4.   <head>
5.     <script src="http://code.jquery.com/jquery-latest.min.js"></script>
6.     <script>
7.
8.       $(document).ready(function() {
9.         $('#demo').submit(function(event) {
10.          alert('hello, ' + $('#name').val() + '!');
11.          event.preventDefault();
12.        });
13.      });
14.
15.    </script>
16.    <title>dom-2</title>
17.  </head>
18.  <body>
19.    <form id="demo">
20.      <input id="name" placeholder="Name" type="text"/>
21.      <input type="submit"/>
22.    </form>
23.  </body>
24. </html>
```

```
1. <?php
2.
3.     // display errors, warnings, and notices
4.     ini_set("display_errors", true);
5.     error_reporting(E_ALL);
6.
7.     // requirements
8.     require("functions.php");
9.     require("libphp-phpmailer/class.phpmailer.php");
10.
11. ?>
```

```
1. <?php
2.
3.     require_once("config.php");
4.
5.     /**
6.      * Apologizes to user with message.
7.      */
8.     function apologize($message)
9.     {
10.         render("apology.php", ["message" => $message]);
11.         exit;
12.     }
13.
14.     /**
15.      * Renders template, passing in values.
16.      */
17.     function render($template, $values = [])
18.     {
19.         // if template exists, render it
20.         if (file_exists("../templates/$template"))
21.         {
22.             // extract variables into local scope
23.             extract($values);
24.
25.             // render header
26.             require("../templates/header.php");
27.
28.             // render template
29.             require("../templates/$template");
30.
31.             // render footer
32.             require("../templates/footer.php");
33.         }
34.
35.         // else err
36.         else
37.         {
38.             trigger_error("Invalid template: $template", E_USER_ERROR);
39.         }
40.     }
41.
42.     /**
43.      * Sends a text. Returns true on success, else false.
44.      */
45.     function text($number, $carrier, $message)
46.     {
47.         // determine address
48.         switch ($carrier)
```

```
49.     {
50.         case "AT&T":
51.             $address = "{$number}@txt.att.net";
52.             break;
53.
54.         case "Sprint":
55.             $address = "{$number}@messaging.sprintpcs.com";
56.             break;
57.
58.         case "T-Mobile":
59.             $address = "{$number}@tmomail.net";
60.             break;
61.
62.         case "Verizon":
63.             $address = "{$number}@vtext.com";
64.             break;
65.     }
66.     if (!isset($address))
67.     {
68.         return false;
69.     }
70.
71.     // instantiate mailer
72.     $mail = new PHPMailer();
73.
74.     // use SMTP
75.     $mail->IsSMTP();
76.     $mail->Host = "smtp.gmail.com";
77.     $mail->Password = "TODO";
78.     $mail->Port = 587;
79.     $mail->SMTPAuth = true;
80.     $mail->SMTPSecure = "tls";
81.     $mail->Username = "jharvard@cs50.net";
82.
83.     // set To:
84.     $mail->AddAddress($address);
85.
86.     // set body
87.     $mail->Body = $message;
88.
89.     // send text
90.     if ($mail->Send())
91.     {
92.         return true;
93.     }
94.     else
95.     {
96.         return false;
```

```
97.     }  
98.   }  
99.  
100. ?>
```

```
1. <?php
2.
3.     require("../includes/config.php");
4.
5.     // ensure user has provided name
6.     if (empty($_POST["name"]))
7.     {
8.         apologize("Missing name!");
9.     }
10.
11.    // ensure user has provided number
12.    if (empty($_POST["number"]))
13.    {
14.        apologize("Missing number!");
15.    }
16.
17.    // ensure user has provided carrier
18.    if (empty($_POST["carrier"]))
19.    {
20.        apologize("Missing carrier!");
21.    }
22.
23.    // remove non-digits from number
24.    $number = preg_replace("/[^\\d]/", "", $_POST["number"]);
25.
26.    // ensure number is 10 digits
27.    if (strlen($number) != 10)
28.    {
29.        apologize("Invalid number!");
30.    }
31.
32.    // text user
33.    if (text($number, $_POST["carrier"], "so glad you're here, {$_POST["name"]}! lol"))
34.    {
35.        render("success.php", ["name" => $_POST["name"]]);
36.    }
37.    else
38.    {
39.        apologize("Could not text you!");
40.    }
41.
42. ?>
```



```
1. <?php
2.
3.     // configuration
4.     require("../includes/config.php");
5.
6.     // render portfolio
7.     render("form.php");
8.
9. ?>
```

1. `<h1>Error</h1>`
2. `<p>`
3. `<?= htmlspecialchars($message) ?>`
4. `</p>`

1. `</body>`
- 2.
3. `</html>`

```
1. <h1>Here?</h1>
2. <form action="here.php" method="post">
3.     <input name="name" placeholder="Name" type="text"/>
4.     <input name="number" placeholder="Phone Number" type="text"/>
5.     <select name="carrier">
6.         <option value=""></option>
7.         <option value="AT&T">AT&T</option>
8.         <option value="Sprint">Sprint</option>
9.         <option value="T-Mobile">T-Mobile</option>
10.        <option value="Verizon">Verizon</option>
11.    </select>
12.    <input type="submit" value="Here!" />
13. </form>
```

```
1. <!DOCTYPE html>
2.
3. <html>
4.
5.     <head>
6.         <title>lecture</title>
7.     </head>
8.
9.     <body>
```

```
1. <h1>Here!</h1>
2. <p>
3.     hello, <?= htmlspecialchars($name) ?>!
4. </p>
```