Ketentuan;

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Contoh; **TI 2A_Elok Nur Hamdana**

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Kelas	:	TI 2I

Tulislah Jawaban Pada Kolom Yang tersedia di bawah ini;
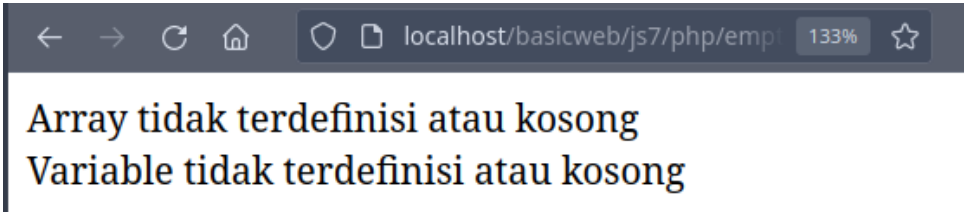
LEMBAR JAWABAN JOBSHEET-7

Soal No	Jawaban
| 1.1 |  <br> ```php
<?php
$umur;
if (isset($umur) && $umur >= 18) {
    echo "Anda sudah dewasa";
} else {
    echo "Anda belum dewasa atau variable umur tidak ditemukan";
}
?>
``` <br> Anda belum dewasa atau variable umur tidak ditemukan <br><br> - According code above, isset() function is used to check whether a variable has already declared and has value that not null. It'll return true if has already |

	declared and has value(not null), and return false if variable is not declared or has null value.
| 1.2 | ```php
11  $data = array("nama" => "Jane", "usia" => 25);
12  if (isset($data["nama"])) {
13      echo "Nama: " . $data["nama"];
14  } else {
15      echo "Variable nama tidak ditemukan dalam
        array";
16  }
```<br><br>`localhost/basicweb/js7/php/isset` 133%<br><br>Anda belum dewasa atau variable umur tidak ditemukan<br>Nama: Jane<br><br>- According code above, we use isset() function to check a array that has parameter $data that has "nama" key. |
| 2.1 | ```php
php > empty.php > …
1   <?php
2
3   $myArray = array();
4   if (empty($myArray)) {
5       echo "Array tidak terdefinisi atau kosong";
6   } else {
7       echo "Array terdefinisi dan tidak kosong";
8   }
9
10  ?>
```<br><br>`localhost/basicweb/js7/php/empt` 133%<br><br>Array tidak terdefinisi atau kosong |

	- According code above, empty() function is used to check a variable is empty or not declared. It'll return true if variable is empty and otherwise, it'll return false if variable has already declared or has value.
| 2.2 | ```php
12  if (empty($test)) {
13      echo "Variable tidak terdefinisi atau kosong";
14  } else {
15      echo "Variable terdefinisi dan tidak kosong";
16  }
```<br><br>localhost/basicweb/js7/php/emp 133%<br><br>Array tidak terdefinisi atau kosong<br>Variable tidak terdefinisi atau kosong<br><br>- Same with before, if before check an array, then according code above it check a variable that used same function which is empty(). |
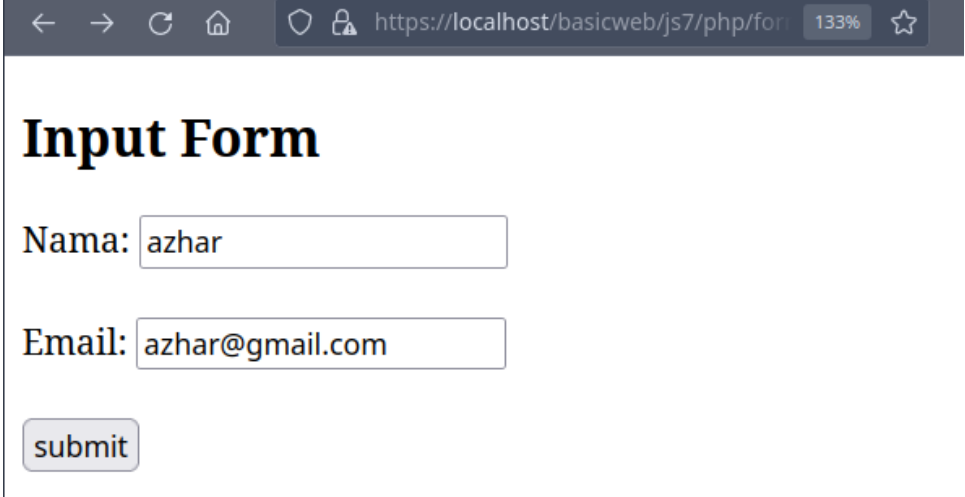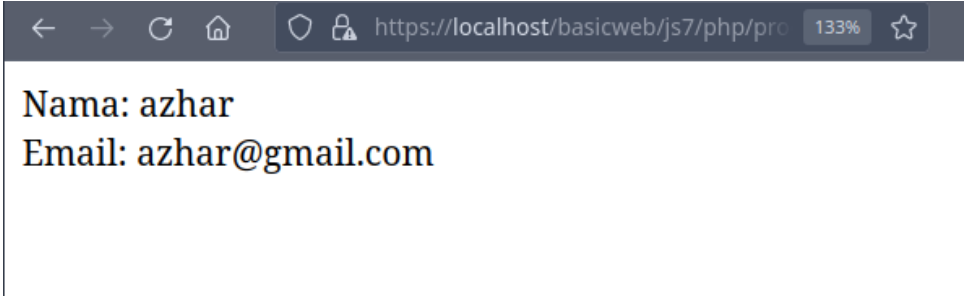
3.1

```
php > php form.php > html > body > form > input
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport"
        content="width=device-width, initial-scale=1.
        0">
6       <title>Input Form PHP</title>
7   </head>
8   <body>
9       <h2>Input Form</h2>
10      <form action="process-form.php" method="POST">
11          <label for="nama">Nama:</label>
12          <input type="text" name="nama" id="nama"
            required><br><br>
13
14          <label for="email">Email:</label>
15          <input type="email" name="email"
            id="email" required><br><br>
16
17          <input type="submit" name="submit"
            value="submit">
18      </form>
19  </body>
20  </html>
```

```
php > php process-form.php > …
1   <?php
2
3   if ($_SERVER["REQUEST_METHOD"] == "POST") {
4       $nama = $_POST["nama"];
5       $email = $_POST["email"];
6       echo "Nama: " . $nama . "<br />";
7       echo "Email: " . $email;
8   }
9
10  ?>
```

- According code above, there is html code that has input form and action to form-process.php. In form-process.php there is condition if request method is POST, it'll be stored input from user in nama, email variabole, then it'll be printed/show with echo.

3.2

```
php > self-form.php > html > body > form > input
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Form Self</title>
7   </head>
8   <body>
9
10      <h2>Input Form</h2>
11      <?php
12
13      // define variables and set to empty values
14      $namaErr = "";
15      $nama = "";
16
17      // check if the form is submitted
18      if ($_SERVER["REQUEST_METHOD"] == "POST") {
19          // validate nama
20          if (empty($_POST["nama"])) {
21              $namaErr = "Nama harus diisi";
22          } else {
23              $nama = $_POST["nama"];
24              echo "Data berhasil di simpan";
25          }
26      }
27
28      ?>
29
30      <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="POST">
31
32          <label for="nama">Nama:</label>
33          <input type="text" name="nama" id="nama" value="<?php echo $nama; ?>">
34          <span style="color: red;"><?php echo $namaErr; ?></span><br><br>
35
36          <input type="submit" name="submit" value="submit">
37
38      </form>
39
40  </body>
41  </html>
```

https://localhost/basicweb/js7/php/self   133%

Input Form

Data berhasil di simpan
Nama: azhar

submit

- According to code above, same with before we create input form html, but the difference with before is we alocated php code inside html. It'll check if request

	is post, then there is nested if that check user input is empty, it'll be print nama harus diisi that stored at namaErr variable. Then else when there is input from user that nama input from user will be stored at $nama variable that will be printed that data berhasil disimpan.

4.1

```php
php > secure-html.php > html > body
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Form Self</title>
7   </head>
8   <body>
9
10      <h2>Secure Form</h2>
11      <?php
12
13      // define variables and set to empty values
14      $input = "";
15
16      // check if the form is submitted
17      if ($_SERVER["REQUEST_METHOD"] == "POST") {
18          $input = $_POST["input"];
19          $input = htmlspecialchars($input, ENT_QUOTES, "UTF-8");
20          echo "halo $input";
21
22      }
23
24      ?>
25
26      <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="POST">
27
28          <label for="input">input:</label>
29          <input type="text" name="input" id="input" value="<?php echo $input; ?>">
30
31          <input type="submit" name="submit" value="submit">
32
33      </form>
34
35  </body>
36  </html>
```
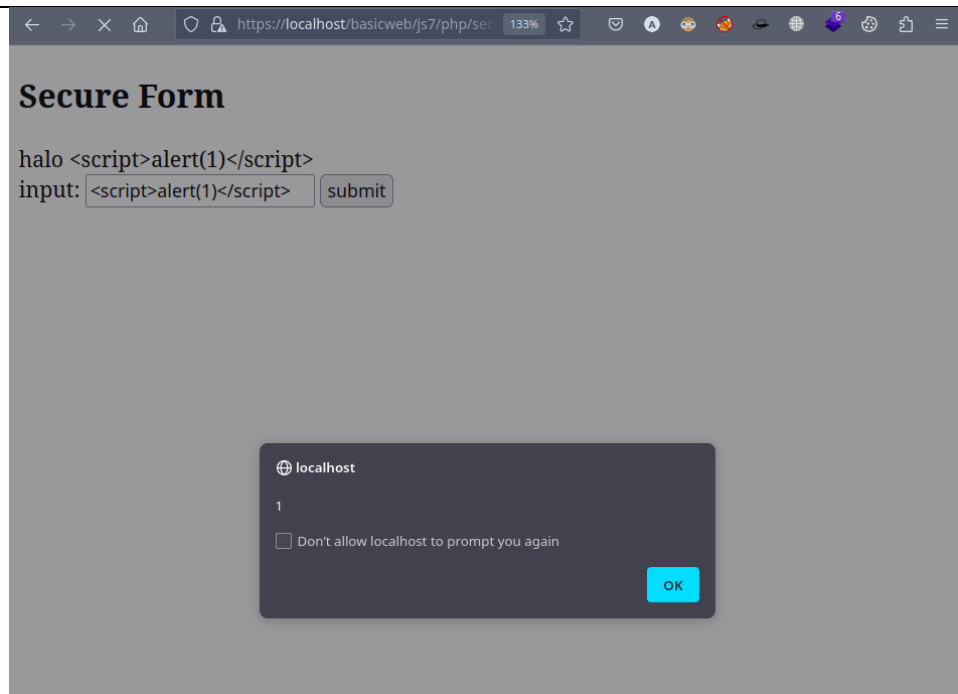
https://localhost/basicweb/js7/php/sec   133%

Secure Form

halo <script>alert(1)</script>
input: [<script>alert(1)</script>] [submit]

- According code above, $input = htmlspecialchars($input, ENT_QUOTES, 'UTF-8'); to protect the application from HTML Injection attacks by converting special characters into HTML entities so that it is not executed as JavaScript code on the web page. If it is not present then will occur as in the picture above.

4.2

```php
php > secure-html.php > html > body
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Form Self</title>
7    </head>
8    <body>
9        |
10       <h2>Secure Form</h2>
11       <?php
12
13       // check if the form is submitted
14       if ($_SERVER["REQUEST_METHOD"] == "POST") {
15           $email = $_POST["email"];
16           if (filter_var($email, FILTER_VALIDATE_EMAIL)) {
17               echo "Email yang sudah divalidasi " . htmlspecialchars($email, ENT_QUOTES, 'UTF-8');
18           } else {
19               echo "Email tidak valid";
20           }
21       }
22
23       ?>
24
25       <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="POST">
26
27           <label for="email">email:</label>
28           <input type="email" name="email" id="email" value="<?php echo $email; ?>">
29
30           <input type="submit" name="submit" value="submit">
31
32       </form>
33
34   </body>
35   </html>
```


Secure Form

Email yang sudah divalidasi asd@gmail.com

email: asd@gmail.com   submit

- According code above, the code is similar to the previous code using $input =
  htmlspecialchars($input, ENT_QUOTES, 'UTF-8'); to protect the application from
  HTML Injection attacks the difference is only in this code displays something if
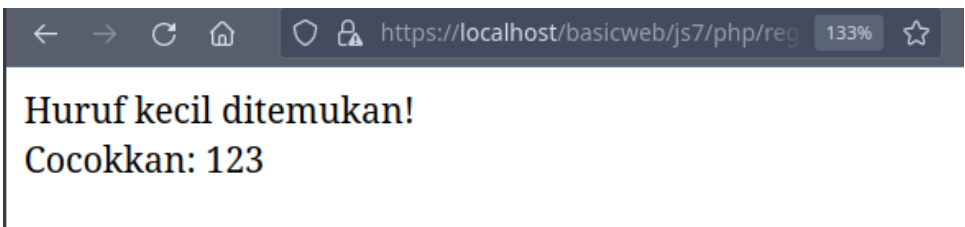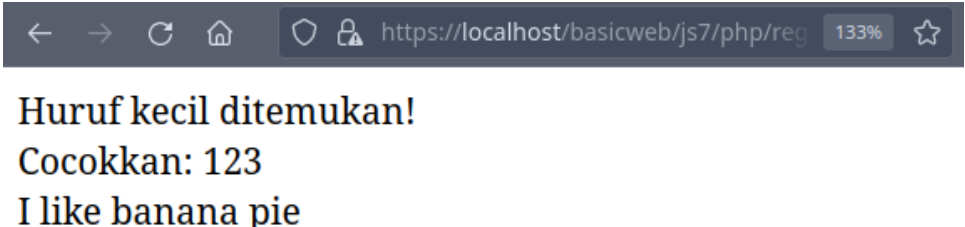 the email is invalid

5.1	
	``php
php > php regex.php > …
1   <?php
2
3    $pattern = '/[a-z]/';
4    $text = "This is a Sample text";
5
6   if (preg_match($pattern, $text)) {
7   echo "Huruf kecil ditemukan!";
8   } else {
9   echo "Huruf kecil tidak ditemukan!";
10   }
11
12   ?>
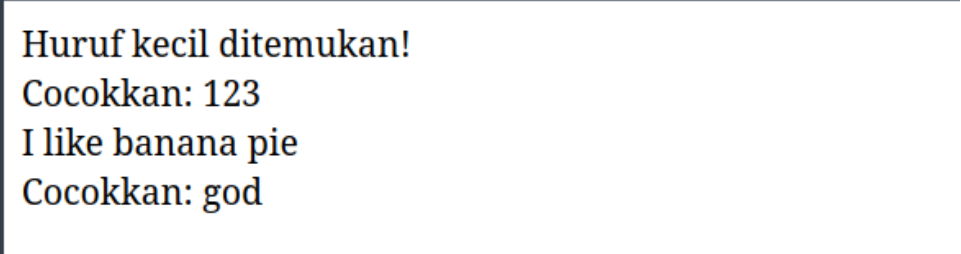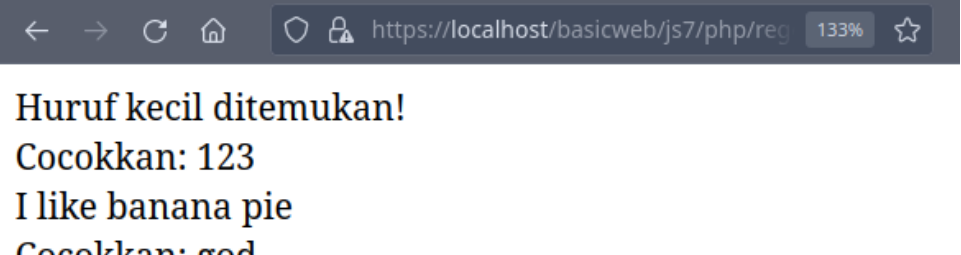```

https://localhost/basicweb/js7/php/reg 133%

Huruf kecil ditemukan!

- According code above, it uses a regex with the preg_match() function with the parameters pattern and parameter, the function is used to check the condition of the text according to the pattern or not.

| 5.2 | ```php
14    $pattern1 = '/[0-9]+/'; // cocokkan satu atau
      lebih angka
15    $text1 = "There are 123 apples";
16    if (preg_match($pattern1, $text1, $matches)) {
17        echo "Cocokkan: " . $matches[0];
18    } else {
19        echo "Tidak ada yang cocok!";
20    }
``` |
| | https://localhost/basicweb/js7/php/reg 133%

Huruf kecil ditemukan!
Cocokkan: 123

- According code above, code as before uses a regex with the preg_match() function but with the pattern parameter and the text to check. And matches to store the result which will be displayed later. |
| 5.3 | ```php
23
24    $pattern2 = '/apple/';
25    $replacement = 'banana';
26    $text2 = 'I like apple pie';
27    $new_text = preg_replace($pattern2, $replacement,
      $text2);
28    echo $new_text;
``` |
| | https://localhost/basicweb/js7/php/reg 133%

Huruf kecil ditemukan!
Cocokkan: 123
I like banana pie

- According code above, it uses the preg_replace() function to replace/overwrite the text according to the given pattern and replacement. |

| 5.4 | ```php
32    $pattern3 = '/go*od/';
33    $text3 = 'god is good';
34    if (preg_match($pattern3, $text3, $matches)) {
35        echo "Cocokkan: " . $matches[0];
36    } else {
37        echo "Tidak ada yang cocok!";
38    }
```<br><br>https://localhost/basicweb/js7/php/reg  133%<br><br>Huruf kecil ditemukan!<br>Cocokkan: 123<br>I like banana pie<br>Cocokkan: god<br><br>- According code above, it uses a different pattern $pattern = '/go*d/'; which will match words like "god" "good" "gooood" etc. |
| 5.5 | ```php
41
42    $pattern4 = '/go?od/';
43    $text4 = 'god is good';
44    if (preg_match($pattern4, $text4, $matches)) {
45        echo "Cocokkan: " . $matches[0];
46    } else {
47        echo "Tidak ada yang cocok!";
48    }
```<br><br>https://localhost/basicweb/js7/php/reg  133%<br><br>Huruf kecil ditemukan!<br>Cocokkan: 123<br>I like banana pie<br>Cocokkan: god<br>Cocokkan: god<br><br>- According code above, it uses the pattern $pattern = '/go?d/'; which will set 0 or 1 character before it should appear |

| 5.6 | ```php
52   $pattern5 = '/go{2,3}d/';
53   $text5 = 'god is good';
54   if (preg_match($pattern5, $text5, $matches)) {
55       echo "Cocokkan: " . $matches[0];
56   } else {
57       echo "Tidak ada yang cocok!";
58   }
``` |
|---|---|

https://localhost/basicweb/js7/php/reg   133%

Huruf kecil ditemukan!
Cocokkan: 123
I like banana pie
Cocokkan: god
Cocokkan: god
Cocokkan: good

- According code above, it uses pattern $pattern = '/go{2,3}d/'; which will set at least 2 times, maximum 3 times the previous character must appear

6.1

```php
php > form-lanjut.php > html > body > form
 4        <meta charset="UTF-8">
 5        <meta name="viewport" content="width=device-width,
          initial-scale=1.0">
 6        <title>Form lanjut</title>
 7    </head>
 8    <body>
 9        <h2>Form lanjut</h2>
10        <form action="process-lanjut.php" method="POST">
11            <label for="buah">pilih buah</label>
12            <select name="buah" id="buah">
13                <option value="apel">apel</option>
14                <option value="pisang">pisang</option>
15                <option value="mangga">mangga</option>
16                <option value="jeruk">apel</option>
17            </select>
18
19            <br><br>
20
21            <label for="">pilih warna favorit</label><br>
22            <input type="checkbox" name="warna[]" id="merah"
            value="merah">merah <br>
23            <input type="checkbox" name="warna[]" id="biru"
            value="biru">biru <br>
24            <input type="checkbox" name="warna[]" id="hijau"
            value="hijau">hijau <br>
25
26            <br>
27
28            <label for="">pilih jenis kelamin</label><br>
29            <input type="radio" name="jenis-kelamin" id="laki-laki"
            value="laki-laki">laki-laki <br>
30            <input type="radio" name="jenis-kelamin" id="perempuan"
            value="perempuan">perempuan <br>
31
32            <br>
33
34            <input type="submit" value="Submit">
35        </form>
36    </body>
37    </html>
```

```php
php > process-lanjut.php > ...
1   <?php
2
3   if ($_SERVER["REQUEST_METHOD"] == "POST") {
4       $selected_buah = $_POST["buah"];
5
6       if (isset($_POST["warna"])) {
7           $selected_warna = $_POST["warna"];
8       } else {
9           $selected_warna = [];
10      }
11
12      $selected_jenis_kelamin = $_POST["jenis-kelamin"];
13
14      echo "Buah yang dipilih: " . $selected_buah . "<br>";
15
16      if (!empty($selected_warna)) {
17          echo "Warna yang dipilih: " . implode(", ",
            $selected_warna) . "<br>";
18      } else {
19          echo "Tidak ada warna yang dipilih <br>";
20      }
21
22      echo "Jenis kelamin: " . $selected_jenis_kelamin . "<br>";
23  }
24
25  ?>
```

- According code above, ts used to create a form by using two files (for input, and input receiver) by using the post method and captured by post as well and will be displayed the input results in the recipient file

6.2

```
php > form-ajax.php > html > body > script > ready() callback > submit() callback > s
 1  <!DOCTYPE html>
 2  <html lang="en">
 3  <head>
 4      <meta charset="UTF-8">
 5      <meta name="viewport" content="width=device-width,
        initial-scale=1.0">
 6      <title>Form lanjut dan jquery</title>
 7      <script src="https://code.jquery.com/jquery-3.6.0.min.js"></
        script>
 8  </head>
 9  <body>
10      <h2>Form lanjut</h2>
11      <form id="myForm">
12          <label for="buah">pilih buah</label>
13          <select name="buah" id="buah">
14              <option value="apel">apel</option>
15              <option value="pisang">pisang</option>
16              <option value="mangga">mangga</option>
17              <option value="jeruk">apel</option>
18          </select>
19
20          <br><br>
21
22          <label for="">pilih warna favorit</label><br>
23          <input type="checkbox" name="warna[]" id="merah"
            value="merah">merah <br>
24          <input type="checkbox" name="warna[]" id="biru"
            value="biru">biru <br>
25          <input type="checkbox" name="warna[]" id="hijau"
            value="hijau">hijau <br>
26
27          <br>
28
29          <label for="">pilih jenis kelamin</label><br>
30          <input type="radio" name="jenis-kelamin" id="laki-laki"
            value="laki-laki">laki-laki <br>
31          <input type="radio" name="jenis-kelamin" id="perempuan"
            value="perempuan">perempuan <br>
32
33          <br>
```

```
34
35          <input type="submit" value="Submit">
36      </form>
37
38      <div id="hasil">
39
40      </div>
41      <script>
42          $(document).ready(function() {
43              $("#myForm").submit(function(e) {
44                  e.preventDefault();
45
46                  var formData = $("#myForm").serialize();
47                  $.ajax({
48                      url: "process-lanjut.php",
49                      type: "POST",
50                      data: formData,
51                      success: function(response) {
52                          $("#hasil").html(response);
53                      }
54                  });
55              });
56          });
57      </script>
58  </body>
59  </html>
```

- According code above, it is to create a form like the previous one, but in the this code uses php and jquery, collecting using the serialize() method, also on the form using ajax to send data to the php server and also display it on the page div.

7.1

```php
php > 🏷 form-validation.php > 🔷 html > 🔷 head > 🔷 meta
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width,
        initial-scale=1.0">
6       <title>Form Validation</title>
7   </head>
8   <body>
9       <h1>Inpuut form dengan validasi</h1>
10      <form method="POST" action="proses-validasi.php">
11          <label for="nama">nama:</label>
12          <input type="text" id="nama" name="nama"><br>
13
14          <label for="email">email:</label>
15          <input type="email" id="email" name="email"><br>
16
17          <input type="submit" value="submit">
18      </form>
19  </body>
20  </html>
```

https://localhost/basicweb/js7/php/for 133%

Inpuut form dengan validasi

nama: [_____]
email: [_____]
[submit]

Nama harus diisi
Email harus diisi

```php
php > 🐘 proses-validasi.php > …
1    <?php
2    if ($_SERVER["REQUEST_METHOD"] == "POST") {
3        $nama = $_POST["nama"];
4        $email = $_POST["email"];
5        $errors = array();
6
7        if (empty($nama)) {
8            $errors[] = "Nama harus diisi";
9        }
10
11       if (empty($email)) {
12           $errors[] = "Email harus diisi";
13       } else if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
14           $errors[] = "Email tidak valid";
15       }
16
17       if (!empty($errors)) {
18           foreach ($errors as $error) {
19               echo $error . "<br>";
20           }
21       } else {
22           echo "Data berhasil dikirim nama = " . $nama . " email = " .
                 $email;
23       }
24   }
25   ?>
26
```

	- According code above, there is validation of the name and email that is inputted, the validation is to check whether the input has been filled in and for email whether the email format is correct, if there is a wrong validation then an error will be displayed, if not then the data will be displayed according to the input

7.2	

php > ⊕ form-validation.php > ⬡ html > ⬡ head > ⬡ script

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width,
        initial-scale=1.0">
6       <title>Form Validation</title>
7       <script src="https://code.jquery.com/jquery-3.6.0.min.js"></
        script>
8   </head>
9   <body>
10      <h1>Inpuut form dengan validasi</h1>
11      <form id="myForm" method="POST" action="proses-validasi.php">
12          <label for="nama">nama:</label>
13          <input type="text" id="nama" name="nama">
14          <span id="nama-error" style="color: red;"></span><br>
15
16          <label for="email">email:</label>
17          <input type="email" id="email" name="email">
18          <span id="email-error" style="color: red;"></span><br>
19
20          <input type="submit" value="submit">
21      </form>
22
23      <script>
24          $(document).ready(function() {
25              $("#myForm").submit(function(event) {
26                  var nama = $("#nama").val();
27                  var email = $("#email").val();
28                  var valid = true;
29
30                  if (nama === "") {
31                      $("#nama-error").text("nama harus diisi");
32                      valid = false;
33                  } else {
34                      $("#nama-error").text("");
35                  }
36
37                  if (email === "") {
38                      $("#email-error").text("email harus diisi");
39                      valid = false;
40                  } else {
41                      $("#email-error").text("");
42                  }
43
44                  if (!valid) {
45                      event.preventDefault();
46                  }
47              });
48          });
49      </script>
50  </body>
51  </html>
```

- The code is actually the same as the previous code, but the difference is only in the use of jquery to perform form validation, display error text if the input is not filled in and stop form submission if the validation fails, if there is still validation to be done and stop the form submission if the validation fails, if there is still a failed validation then the form cannot be submitted. fails then the form cannot be submitted.

7.3

```
php > form-validation.php > html > body > script > ready() callback > submit() callba
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width,
         initial-scale=1.0">
6        <title>Form Validation</title>
7        <script src="https://code.jquery.com/jquery-3.6.0.min.js"></
         script>
8    </head>
9    <body>
10       <h1>Inpuut form dengan validasi</h1>
11       <form id="myForm" method="POST">
12           <label for="nama">nama:</label>
13           <input type="text" id="nama" name="nama">
14           <span id="nama-error" style="color: red;"></span><br>
15
16           <label for="email">email:</label>
17           <input type="email" id="email" name="email">
18           <span id="email-error" style="color: red;"></span><br>
19
20           <input type="submit" value="submit">
21
22           <div id="hasil">
23
24           </div>
25       </form>
26
27       <script>
28           $(document).ready(function() {
29               $("#myForm").submit(function(event) {
30                   event.preventDefault();
31
32                   var nama = $("#nama").val();
33                   var email = $("#email").val();
34                   var valid = true;
35
36                   if (nama === "") {
37                       $("#nama-error").text("nama harus diisi");
38                       valid = false;
```

```
39              } else {
40                  $("#nama-error").text("");
41              }
42
43              if (email === "") {
44                  $("#email-error").text("email harus diisi");
45                  valid = false;
46              } else {
47                  $("#email-error").text("");
48              }
49
50              var formData = $("#myForm").serialize();
51
52              if (valid) {
53                  $.ajax({
54                      url: "proses-validasi.php",
55                      type: "POST",
56                      data: formData,
57                      success: function(response) {
58                          $("#hasil").html(response);
59                      }
60                  });
61              }
62          });
63      });
64  </script>
65  </body>
66  </html>
```

Inpuut form dengan validasi

nama: azhar
email: azhar@gmail.com
submit
Data berhasil dikirim nama = azhar email = azhar@gmail.com

- The code uses ajax to send the result of the input, if the validation on the input is met

7.4	

```
php > form-validation.php > html > body > script > ready() callback > submit() callback
 1   <!DOCTYPE html>
 2   <html lang="en">
 3   <head>
 4       <meta charset="UTF-8">
 5       <meta name="viewport" content="width=device-width,
         initial-scale=1.0">
 6       <title>Form Validation</title>
 7       <script src="https://code.jquery.com/jquery-3.6.0.min.js"></
         script>
 8   </head>
 9   <body>
10       <h1>Inpuut form dengan validasi</h1>
11       <form id="myForm" method="POST">
12           <label for="nama">nama:</label>
13           <input type="text" id="nama" name="nama">
14           <span id="nama-error" style="color: red;"></span><br>
15
16           <label for="email">email:</label>
17           <input type="email" id="email" name="email">
18           <span id="email-error" style="color: red;"></span><br>
19
20           <label for="password">password:</label>
21           <input type="password" id="password" name="password">
22           <span id="password-error" style="color: red;"></span><br>
23
24           <input type="submit" value="submit">
25
26           <div id="hasil">
27
28           </div>
29       </form>
30
31       <script>
32           $(document).ready(function() {
33               $("#myForm").submit(function(event) {
34                   event.preventDefault();
35
36                   var nama = $("#nama").val();
37                   var email = $("#email").val();
38                   var password = $("#password").val();
```

```
39              var valid = true;
40
41              if (nama === "") {
42                  $("#nama-error").text("nama harus diisi");
43                  valid = false;
44              } else {
45                  $("#nama-error").text("");
46              }
47
48              if (email === "") {
49                  $("#email-error").text("email harus diisi");
50                  valid = false;
51              } else {
52                  $("#email-error").text("");
53              }
54
55              if (password.length <= 8) {
56                  $("#password-error").text("password minimal harus
                    8 karakter!");
57                  valid = false;
58              } else {
59                  $("#password-error").text("");
60              }
61
62              var formData = $("#myForm").serialize();
63
64              if (valid) {
65                  $.ajax({
66                      url: "proses-validasi.php",
67                      type: "POST",
68                      data: formData,
69                      success: function(response) {
70                          $("#hasil").html(response);
71                      }
72                  });
73              }
74          });
75      });
76      </script>
77  </body>
78  </html>
```

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