

Statement Kontrol

Mata Kuliah: Pemograman Web

Materi Praktikum ke: 11



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**FAKULTAS SAINS DAN TEKNOLOGI
PROGRAM STUDI S1 TEKNIK INFORMATIKA
UNIVERSITAS MUHAMMADIYAH KALIMANTAN
TIMUR**

BAB I

ALAT DAN BAHAN

A. Alat

1. Komputer atau Laptop
2. Visual Studio Code
3. Browser

B. Bahan

1. Dokumentasi

BAB II PROSEDUR KERJA

A. Latihan 1

1. For1 heading.php

```
for01 heading.php
1  <?php
2  $teks = "Hello world";
3  for ($a = 1; $a <= 5; $a++)
4  {
5      echo "<h$a>$teks</h$a>";
6  }
7  ?>
```

Output:

Hello World

Hello World

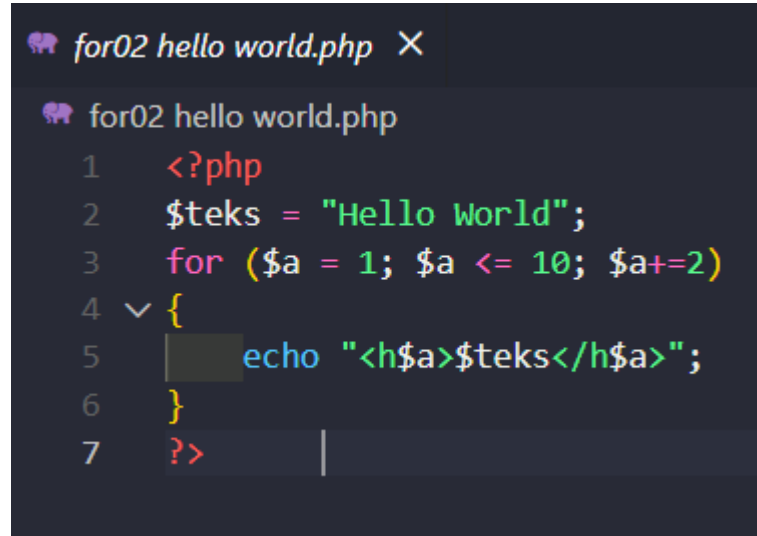
Hello World

Hello World

Hello World

B. Latihan 2

1. For2 hello world.php



```
for02 hello world.php X
for02 hello world.php
1  <?php
2  $teks = "Hello World";
3  for ($a = 1; $a <= 10; $a+=2)
4  {
5      echo "<h$a>$teks</h$a>";
6  }
7  ?>
```

Output:

Hello World

Hello World

Hello World

Hello WorldHello World

C. Latihan 3

1. For3 hello world dec.php

```
for03 hello world dec.php
1  <?php
2  $teks = "Hello world";
3  for ($a = 10; $a > 5; $a--)
4  {
5      echo "<h1>" . $a . ". " . $teks . "</h1>";
6  }
7  ?>
```

Output:

10. Hello World

9. Hello World

8. Hello World

7. Hello World

6. Hello World

D. Latihan 4

1. For4 nested for.php

```
for04 nested for.php
1  <?php
2  for ($a = 1; $a <= 3; $a++)
3  {
4      for ($b = 1; $b <= 2; $b++)
5      {
6          echo "Nilai a = " . $a . " Nilai b = " . $b . "<br />";
7      }
8  }
9  ?>
```

Output:

```
Nilai a = 1 Nilai b = 1
Nilai a = 1 Nilai b = 2
Nilai a = 2 Nilai b = 1
Nilai a = 2 Nilai b = 2
Nilai a = 3 Nilai b = 1
Nilai a = 3 Nilai b = 2
```

E. Latihan 5

1. For5 bilbulat.php

```
for05 bilbulat.php
1  <?php
2  for ($bil = 5; $bil <= 100; $bil++)
3  {
4      if ($bil % 10 == 0) echo $bil . "<br />";
5  }
6  ?>
```

Output:

10
20
30
40
50
60
70
80
90
100

F. Latihan 6

1. For06 jumlah bilbulat.php

```
for06 jumlah bilbulat.php
1  <?php
2  $jumlah = 0;
3  for ($bil = 2; $bil <= 50; $bil++)
4  {
5      $jumlah = $jumlah + $bil;
6  }
7  echo "Hasilnya adalah " . $jumlah;
8  ?>
```

Output:

Hasilnya adalah 1274

G. Latihan 7

1. For7 banyak dibulat.php

```
for07 banyak bilbulat.php
1  <?php
2  $hitung = 0;
3  for ($bil = 3; $bil <= 127; $bil++)
4  {
5      if ($bil % 6 == 0) $hitung = $hitung + 1;
6  }
7  echo "Banyaknya bilangan bulat adalah " . $hitung;
8  ?>
```

Output:

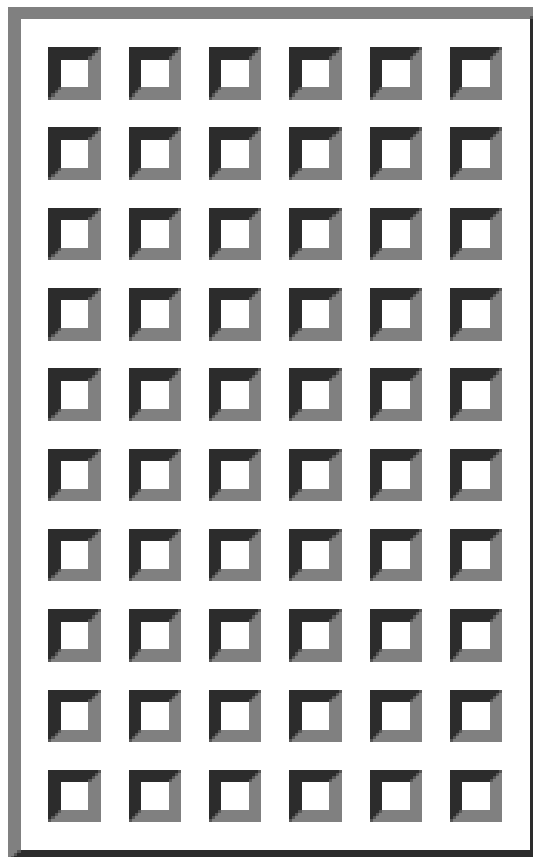
Banyaknya bilangan bulat adalah 21

H. Latihan 8

1. For8 table.php

```
for08 table.php
1  <?php
2  $jumBaris = 10;
3  $jumKolom = 6;
4  echo "<table border='1'>";
5  for ($baris = 1; $baris <= $jumBaris; $baris++)
6  {
7      echo "<tr>";
8      for ($kolom = 1; $kolom <= $jumKolom; $kolom++)
9      {
10         echo "<td></td>";
11     }
12     echo "</tr>";
13 }
14 echo "</table>";
15 ?>
```

Output:



I. Latihan 9

1. For9 combo.php

```
for09 combo.php
1  <?php
2  echo "<select name='tahun'>";
3  for ($tahun = 1950; $tahun <= 2022; $tahun++)
4  {
5      echo "<option value='". $tahun ."'. $tahun .</option>";
6  }
7  echo "</select>";
8  ?>
```

Output:



A screenshot of a web browser displaying a dropdown menu. The menu is titled "1950" with a downward arrow. The list of years from 1950 to 1969 is visible. The year 1952 is highlighted in blue, indicating it is the selected option. The years 1950, 1951, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, and 1969 are listed in a standard font. A vertical scrollbar is visible on the right side of the dropdown menu.

J. Latihan 10

1. While1 bil1-3.php

```
while1 bil1-3.php
1  <?php
2  $bil = 1;
3  while ($bil <= 3) {
4      echo $bil . "<br />";
5      $bil++;
6  }
7  ?>
```

Output:

1
2
3

K. Latihan 11

1. While2 rand.php

```
while2 rand.php
1  <?php
2  $bil = rand(0, 10);
3  while ($bil != 0) {
4      echo $bil . "<br />";
5      $bil = rand(0, 10);
6  }
7  ?>
```

Output:

```
2
7
1
3
4
8
8
1
5
10
7
8
6
3
2
4
4
9
5
1
9
3
5
4
5
3
1
10
```

L. Latihan 12

1. While3 nested.php

```
while3 nested.php
1  <?php
2  $a = 1;
3  while ($a <= 3) {
4      $b = 1;
5      while ($b <= 2) {
6          echo "Nilai a = " . $a . " Nilai b = " . $b . " <br />";
7          $b++;
8      }
9      $a++;
10 }
11 ?>
```

Output:

```
Nilai a = 1 Nilai b = 1
Nilai a = 1 Nilai b = 2
Nilai a = 2 Nilai b = 1
Nilai a = 2 Nilai b = 2
Nilai a = 3 Nilai b = 1
Nilai a = 3 Nilai b = 2
```

M.Latihan 13

1. While4 nested.php

```
while4 x10.php
1  <?php
2  $bil = 5;
3  while ($bil <= 100) {
4      if ($bil % 10 == 0) echo $bil . " <br />";
5      $bil++;
6  }
7  ?>
```

Output:

10
20
30
40
50
60
70
80
90
100

N. Latihan 14

1. While5 bilbulat.php

```
while5 bilbulat.php
1  <?php
2  $jumlah = 0;
3  $bil = 2;
4  while ($bil <= 50) {
5      $jumlah = $jumlah + $bil;
6      $bil++;
7  }
8  echo "Hasilnya adalah " . $jumlah;
9  ?>
```

Output:

Hasilnya adalah 1274

O. Latihan 15

1. While6 bilbulat.php

```
while6 sum_bulat.php
1  <?php
2      $hitung = 0;
3      $bil = 3;
4      while ($bil <= 127) {
5          if ($bil % 6 == 0) {
6              $hitung = $hitung + 1;
7          }
8          $bil++;
9      }
10     echo "Banyaknya bilangan bulat adalah " . $hitung;
11  ?>
```

Output:

Banyaknya bilangan bulat adalah 21

P. Latihan 16

1. While7 table.php

```
while7 table.php
1  <?php
2      $jumBaris = 10;
3      $jumKolom = 6;
4      echo "<table border='1'>";
5      $baris = 1;
6      while ($baris <= $jumBaris) {
7          echo "<tr>";
8          $kolom = 1;
9          while ($kolom <= $jumKolom) {
10             echo "<td>&nbsp;</td>"; // Isi default &nbsp; agar terlihat
11             $kolom++;
12         }
13         echo "</tr>";
14         $baris++;
15     }
16     echo "</table>";
17  ?>
```

Output:

Q. Latihan 16

1. While8 combo.php

```
while8 combo.php
1 <?php
2 echo "<select name='tahun'>";
3 $tahun = 1950;
4 while ($tahun <= 2022) {
5     echo "<option value='". $tahun ."'. $tahun .</option>";
6     $tahun++;
7 }
8 echo "</select>";
9 ?>
```

Output:



A screenshot of a web browser displaying a dropdown menu. The menu is titled "1950" with a downward arrow. The list of options includes years from 1950 to 1969. The year "1951" is currently selected and highlighted with a blue background. The rest of the options are in a light gray background. The list ends with "1969" and an upward arrow.

R. Soal 1

1. Bank_saldo.php

```

1 <?php
2 $saldo_akhir = 0;
3 $n = 0;
4
5 if ($_SERVER["REQUEST_METHOD"] == "POST") {
6     // Ambil input dari form
7     $saldo_awal = isset($_POST['saldo_awal']) ? (float)$_POST['saldo_awal'] : 0;
8     $n = isset($_POST['n_bulan']) ? (int)$_POST['n_bulan'] : 0;
9
10    $saldo_akhir = $saldo_awal;
11    $biaya_admin = 9000;
12    $batas_saldo = 11000000;
13    $bunga_rendah = 0.03 / 12; // 3% p.a. / 12 bulan
14    $bunga_tinggi = 0.04 / 12; // 4% p.a. / 12 bulan
15
16    echo "<h3>Detail Perhitungan Saldo Selama $n Bulan:</h3>";
17    echo "Saldo Awal: Rp " . number_format($saldo_awal, 0, ',', '.') . "<br>";
18    echo "<table border='1' style='border-collapse: collapse; margin-top: 10px;'>";
19    echo "<tr><th>Bulan ke-</th><th>Saldo Awal Bulan</th><th>Bunga Bulanan</th><th>Biaya Admin</th><th>Saldo Akhir Bulan</th></tr>";
20
21    // Loop perhitungan saldo selama N bulan
22    for ($i = 1; $i <= $n; $i++) {
23        $saldo_awal_bulan = $saldo_akhir;
24
25        // Tentukan persentase bunga bulanan
26        $bunga_persen = ($saldo_awal_bulan < $batas_saldo) ? $bunga_rendah : $bunga_tinggi;
27
28        // Hitung bunga bulanan
29        $bunga_nominal = $saldo_awal_bulan * $bunga_persen;
30
31        // Saldo baru
32        $saldo_akhir = $saldo_awal_bulan + $bunga_nominal - $biaya_admin;
33
34        // Tampilkan detail per bulan
35        echo "<tr>";
36        echo "<td>$i</td>";
37        echo "<td>Rp " . number_format($saldo_awal_bulan, 0, ',', '.') . "</td>";
38        echo "<td>Rp " . number_format($bunga_nominal, 0, ',', '.') . " (" . number_format($bunga_persen * 12 * 100, 0) . "% p.a.)</td>";
39        echo "<td>Rp " . number_format($biaya_admin, 0, ',', '.') . "</td>";
40        echo "<td>Rp " . number_format($saldo_akhir, 0, ',', '.') . "</td>";
41        echo "</tr>";
42    }
43    echo "</table>";
44    echo "<br><strong>Saldo Akhir Setelah $n Bulan adalah: Rp " . number_format($saldo_akhir, 0, ',', '.') . "</strong>";
45 }
46 ?>
47
48 <h3>Input Saldo Tabungan</h3>
49 <form method="post" action="">
50     Saldo Awal (Rp): <input type="number" name="saldo_awal" value="1000000" min="1" required><br>
51     Jangka Waktu (N bulan): <input type="number" name="n_bulan" value="12" min="1" required><br>
52     <input type="submit" value="Hitung Saldo Akhir">
53 </form>

```

Output:

Detail Perhitungan Saldo Selama 12 Bulan:

Saldo Awal: Rp 1.000.000

Bulan ke-	Saldo Awal Bulan	Bunga Bulanan	Biaya Admin	Saldo Akhir Bulan
1	Rp 1.000.000	Rp 2.500 (3% p.a.)	Rp 9.000	**Rp 993.500**
2	Rp 993.500	Rp 2.484 (3% p.a.)	Rp 9.000	**Rp 986.984**
3	Rp 986.984	Rp 2.467 (3% p.a.)	Rp 9.000	**Rp 980.451**
4	Rp 980.451	Rp 2.451 (3% p.a.)	Rp 9.000	**Rp 973.902**
5	Rp 973.902	Rp 2.435 (3% p.a.)	Rp 9.000	**Rp 967.337**
6	Rp 967.337	Rp 2.418 (3% p.a.)	Rp 9.000	**Rp 960.755**
7	Rp 960.755	Rp 2.402 (3% p.a.)	Rp 9.000	**Rp 954.157**
8	Rp 954.157	Rp 2.385 (3% p.a.)	Rp 9.000	**Rp 947.543**
9	Rp 947.543	Rp 2.369 (3% p.a.)	Rp 9.000	**Rp 940.912**
10	Rp 940.912	Rp 2.352 (3% p.a.)	Rp 9.000	**Rp 934.264**
11	Rp 934.264	Rp 2.336 (3% p.a.)	Rp 9.000	**Rp 927.600**
12	Rp 927.600	Rp 2.319 (3% p.a.)	Rp 9.000	**Rp 920.919**

Saldo Akhir Setelah 12 Bulan adalah: Rp 920.919

Input Saldo Tabungan

Saldo Awal (Rp):

Jangka Waktu (N bulan):

S. Soal 2

1. Persamaan_xyz.php

```

persamaan_xyz.php
1  <?php
2      echo "<h2>Penyelesaian Persamaan: x + y + z = 25</h2>";
3      $jumlah_penyelesaian = 0;
4
5      // Loop tingkat 1 (untuk x)
6      for ($x = 1; $x <= 23; $x++) {
7
8          // Batasan y: y tidak boleh melebihi sisa 25 setelah dikurangi x (y + z = 25 - x).
9          // Karena z minimum 1, maka y_max = (25 - x) - 1.
10         $y_max = 24 - $x;
11
12         // Loop tingkat 2 (untuk y)
13         for ($y = 1; $y <= $y_max; $y++) {
14
15             // Hitung nilai z, z = 25 - x - y
16             $z = 25 - $x - $y;
17
18             // Cek apakah z adalah bilangan asli (z >= 1)
19             // Cek ini sebenarnya tidak diperlukan lagi jika batasan y_max sudah benar
20             if ($z >= 1) {
21                 // Tampilkan pasangan solusi
22                 echo "x = $x, y = $y, z = $z <br>";
23                 $jumlah_penyelesaian++;
24             }
25         }
26     }
27
28     echo "<br>***<br>";
29     echo "Jumlah penyelesaian: *** . $jumlah_penyelesaian . ***";
30 }>

```

Output:

Penyelesaian Persamaan: x + y + z = 25

```

x = 1, y = 1, z = 23
x = 1, y = 2, z = 22
x = 1, y = 3, z = 21
x = 1, y = 4, z = 20
x = 1, y = 5, z = 19
x = 1, y = 6, z = 18
x = 1, y = 7, z = 17
x = 1, y = 8, z = 16
x = 1, y = 9, z = 15
x = 1, y = 10, z = 14
x = 1, y = 11, z = 13
x = 1, y = 12, z = 12
x = 1, y = 13, z = 11
x = 1, y = 14, z = 10
x = 1, y = 15, z = 9
x = 1, y = 16, z = 8
x = 1, y = 17, z = 7
x = 1, y = 18, z = 6
x = 1, y = 19, z = 5
x = 1, y = 20, z = 4
x = 1, y = 21, z = 3
x = 1, y = 22, z = 2
x = 1, y = 23, z = 1
x = 2, y = 1, z = 22
x = 2, y = 2, z = 21
x = 2, y = 3, z = 20
x = 2, y = 4, z = 19
x = 2, y = 5, z = 18
x = 2, y = 6, z = 17
x = 2, y = 7, z = 16
x = 2, y = 8, z = 15
x = 2, y = 9, z = 14
x = 2, y = 10, z = 13
x = 2, y = 11, z = 12
x = 2, y = 12, z = 11
x = 2, y = 13, z = 10
x = 2, y = 14, z = 9
x = 2, y = 15, z = 8
x = 2, y = 16, z = 7
x = 2, y = 17, z = 6
x = 2, y = 18, z = 5
x = 2, y = 19, z = 4

```

x = 15, y = 5, z = 5
x = 15, y = 6, z = 4
x = 15, y = 7, z = 3
x = 15, y = 8, z = 2
x = 15, y = 9, z = 1
x = 16, y = 1, z = 8
x = 16, y = 2, z = 7
x = 16, y = 3, z = 6
x = 16, y = 4, z = 5
x = 16, y = 5, z = 4
x = 16, y = 6, z = 3
x = 16, y = 7, z = 2
x = 16, y = 8, z = 1
x = 17, y = 1, z = 7
x = 17, y = 2, z = 6
x = 17, y = 3, z = 5
x = 17, y = 4, z = 4
x = 17, y = 5, z = 3
x = 17, y = 6, z = 2
x = 17, y = 7, z = 1
x = 18, y = 1, z = 6
x = 18, y = 2, z = 5
x = 18, y = 3, z = 4
x = 18, y = 4, z = 3
x = 18, y = 5, z = 2
x = 18, y = 6, z = 1
x = 19, y = 1, z = 5
x = 19, y = 2, z = 4
x = 19, y = 3, z = 3
x = 19, y = 4, z = 2
x = 19, y = 5, z = 1
x = 20, y = 1, z = 4
x = 20, y = 2, z = 3
x = 20, y = 3, z = 2
x = 20, y = 4, z = 1
x = 21, y = 1, z = 3
x = 21, y = 2, z = 2
x = 21, y = 3, z = 1
x = 22, y = 1, z = 2
x = 22, y = 2, z = 1
x = 23, y = 1, z = 1

Jumlah penyelesaian: **276**
