

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. Baham

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 ?>
```

Outpot:

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:



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

```
FTP 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

```
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

```
FTP 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

```
FTP 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

```
FTP 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

```
FTP 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 }
echo "</select>";
```

Output:



R. Soal 1

1. Bank_saldo.php

```

1  <?php
2  $saldo_awal = 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 = 1100000;
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>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($bunga_persen * 12 * 100, 0) . "% p.a.)</td>";
39         echo "  <td>Rp " . number_format($saldo_akhir, 0, ',', '.') . "***</td>";
40         echo "</tr>";
41     }
42     echo "</table>";
43     echo "<br><strong>Saldo Akhir Setelah $n Bulan adalah: Rp " . number_format($saldo_akhir, 0, ',', '.') . "</strong>";
44 }
45 >>
46
47 <h3>Input Saldo Tabungan</h3>
48 <form method="post" action="">
49   Saldo Awal (Rp): <input type="number" name="saldo_awal" value="1000000" min="1" required><br><br>
50   Jangka Waktu (N bulan): <input type="number" name="n_bulan" value="12" min="1" required><br><br>
51   <input type="submit" value="Hitung Saldo Akhir">
52 </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

```


```

1 <?php
2 echo "<h2>Penyelesaian Persamaan: x + y + z = 25</h2>";
3 $jumlah_penyeselain = 0;
4
5 // Loop tingkat 1 (untuk x)
6 for ($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
";
23 $jumlah_penyeselain++;
24 }
25 }
26
27 echo "

";
28 echo "Jumlah penyelesaian: *** . $jumlah_penyeselain . ***";
29
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**
