



Nurul Fikri College of Technology
<http://nurulfikri.ac.id>

Pemrograman Web 2

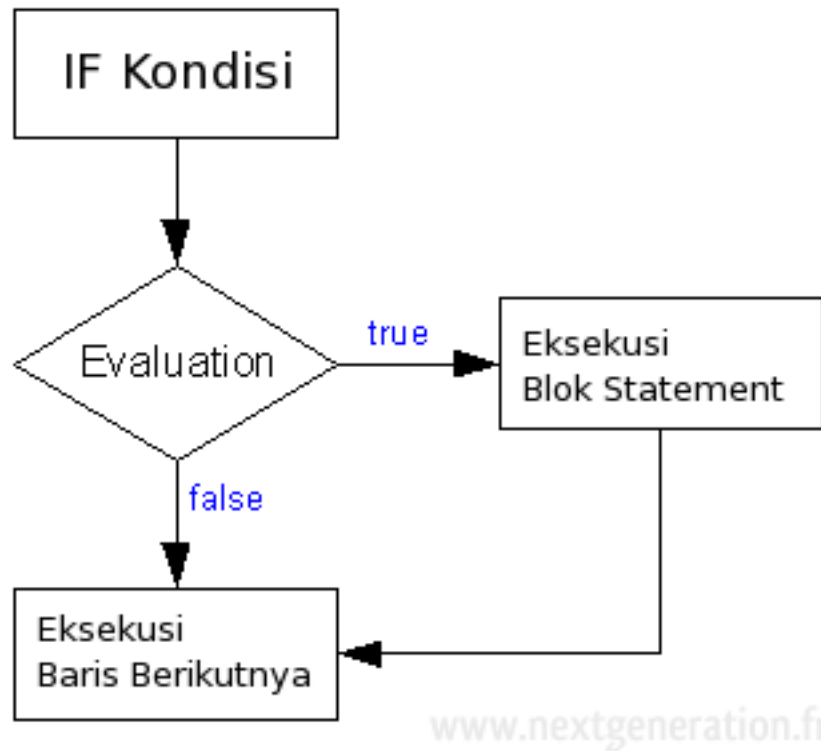
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5. PHP Control Structure

PHP Control Structures

- `if (expression) {block} elseif {block} else {block}`
- `while (expression) {block}` OR
- `do {block} while (expression)`
- `for (expression) {block}`
- `foreach var (list) {block}`
- `switch (variable) //variable can be int or string`
 - case 0:
 - `// do something;`
 - `break;`
 - case 1:
 - `// do something else;`
 - `break;`
- `break;`
- `continue;`
- `return;`

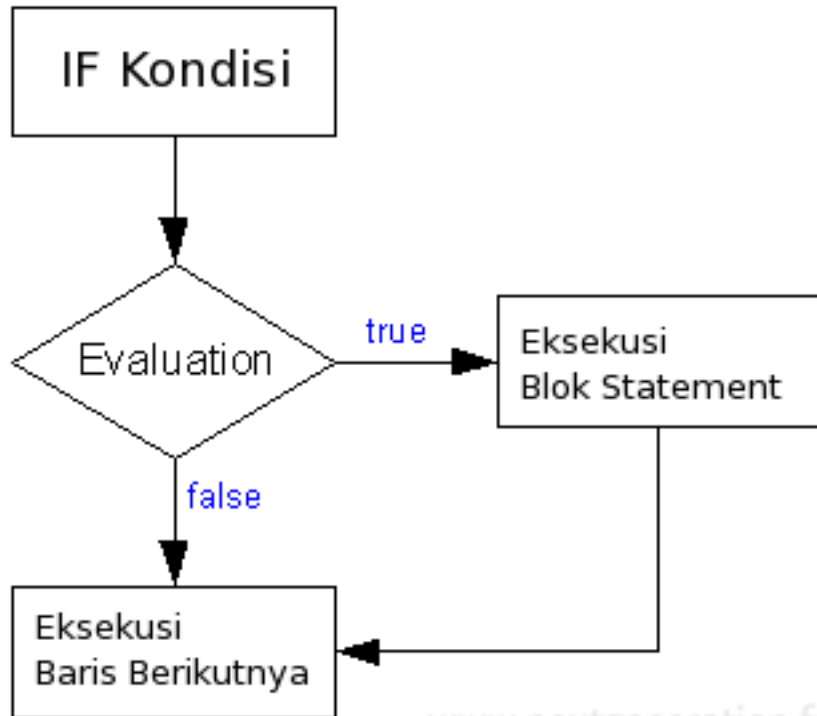
Control Structure : IF



```
<?php
    if(condition)
    {
        // Blok Statement
    }
?>

<?php
$
if (!empty($nama))
{
    echo 'Nama ' . $nama;
}
?>
```

Control Structure : IF

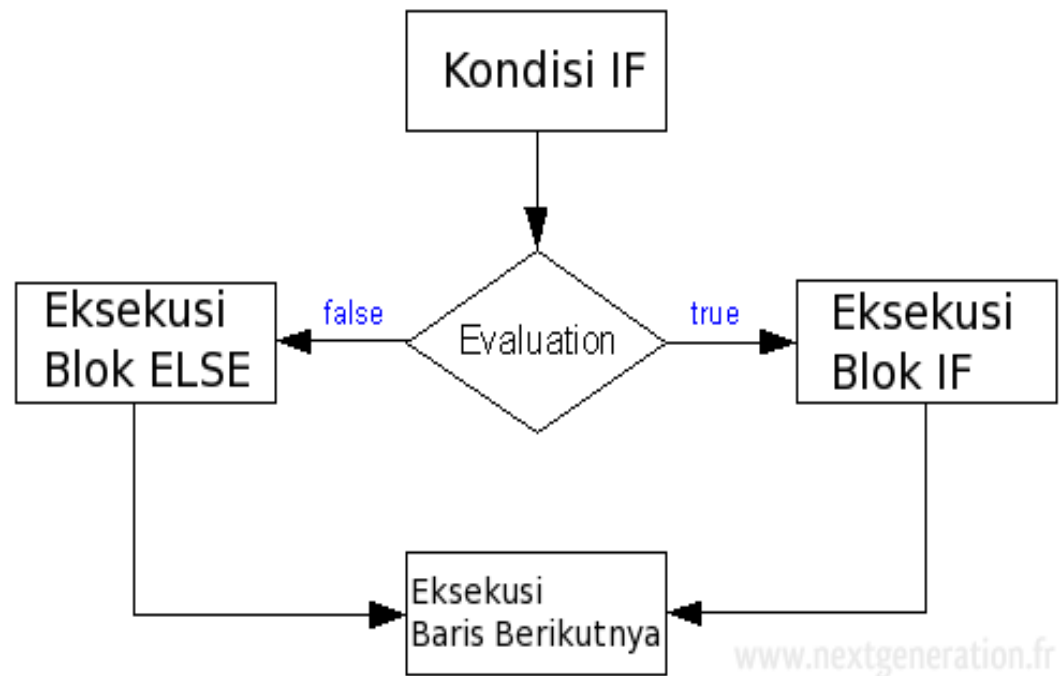


```
<?php
    $secretNumber = 453;
    if ($_POST['guess'] == $secretNumber) {
        echo "<p>Congratulations!</p>";
    }
?>
```

www.nextgeneration.fr

```
<?php
    $secretNumber = 453;
    if ($_POST['guess'] == $secretNumber) echo"<p>Congratulations!</p>";
?>
```

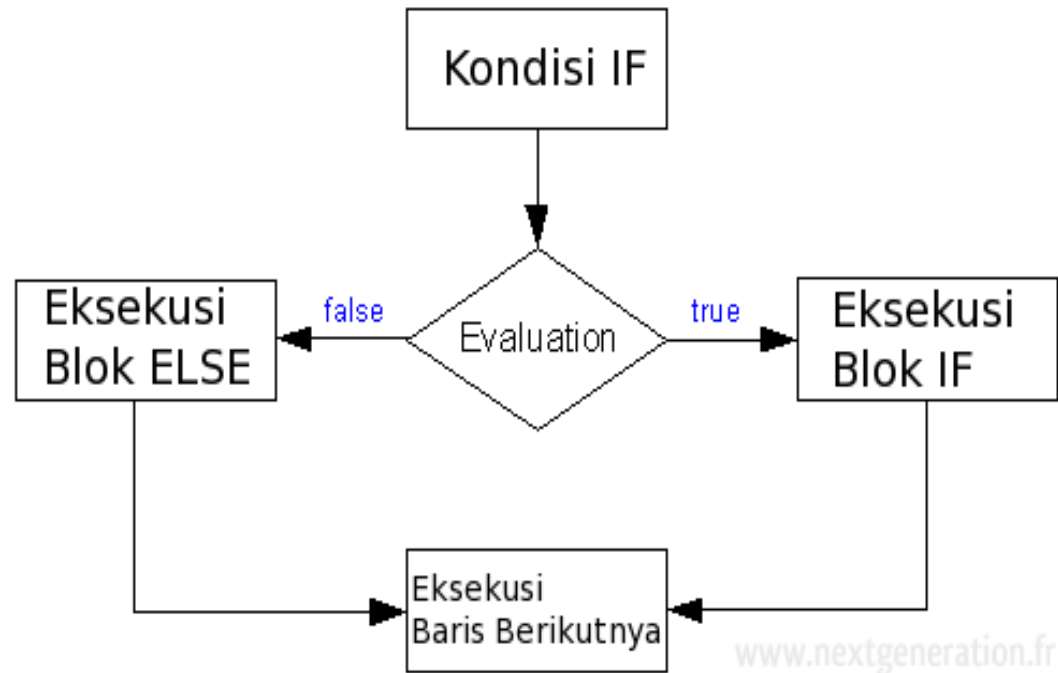
Control Structure : IF .. ELSE



```
if (condition) {  
    code to be executed if condition is true;  
} else {  
    code to be executed if condition is false;  
}
```

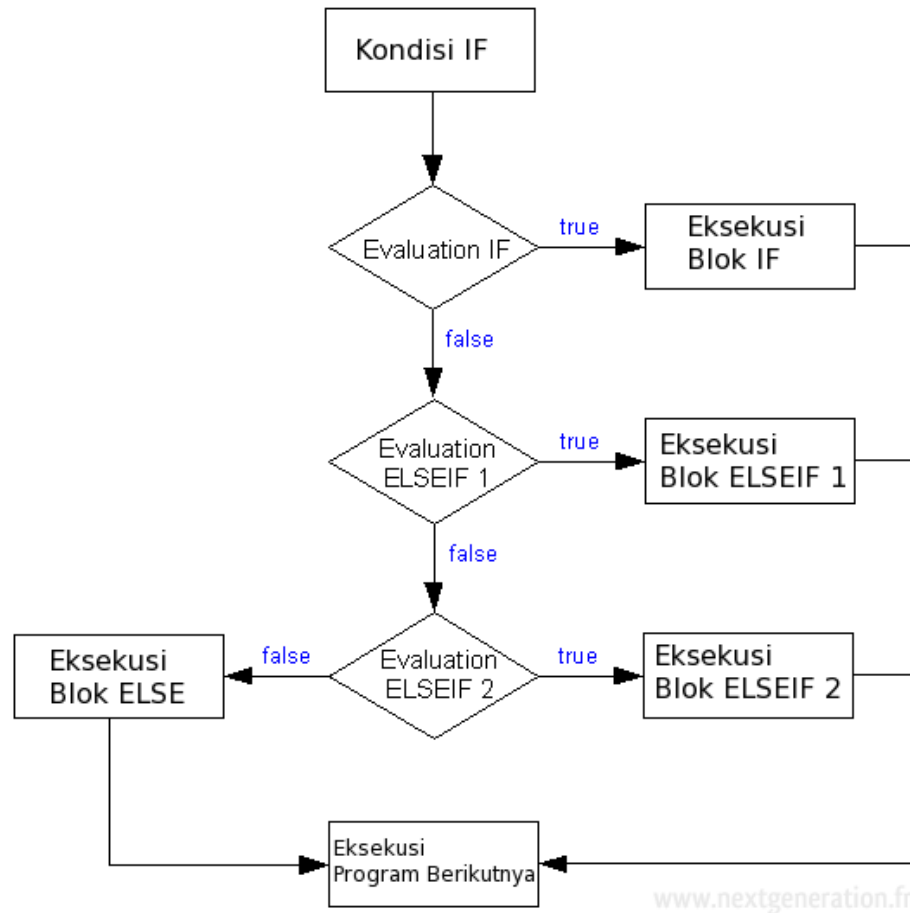
```
<?php  
    if ( $_nilai > 55 ) {  
        echo 'LULUS';  
    } else {  
        echo 'TIDAK LULUS';  
    }  
?>
```

Control Structure : IF .. ELSE



```
<?php
    $secretNumber = 453;
    if ($_POST['guess'] == $secretNumber) {
        echo "<p>Congratulations!!</p>";
    } else {
        echo "<p>Sorry!</p>";
    }
?>
```

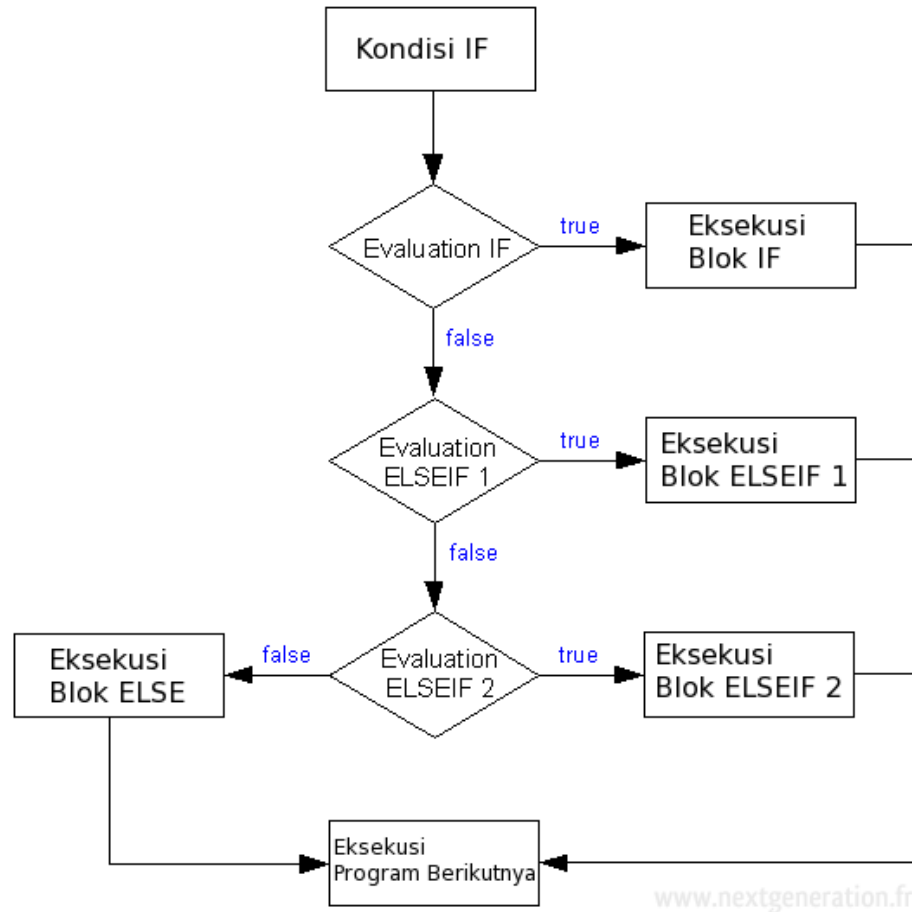
Control Structure : IF .. ELSE



```
if (condition) {  
    code to be executed if this condition is true;  
} elseif (condition) {  
    code to be executed if this condition is true;  
} else {  
    code to be executed if all conditions are false;  
}
```

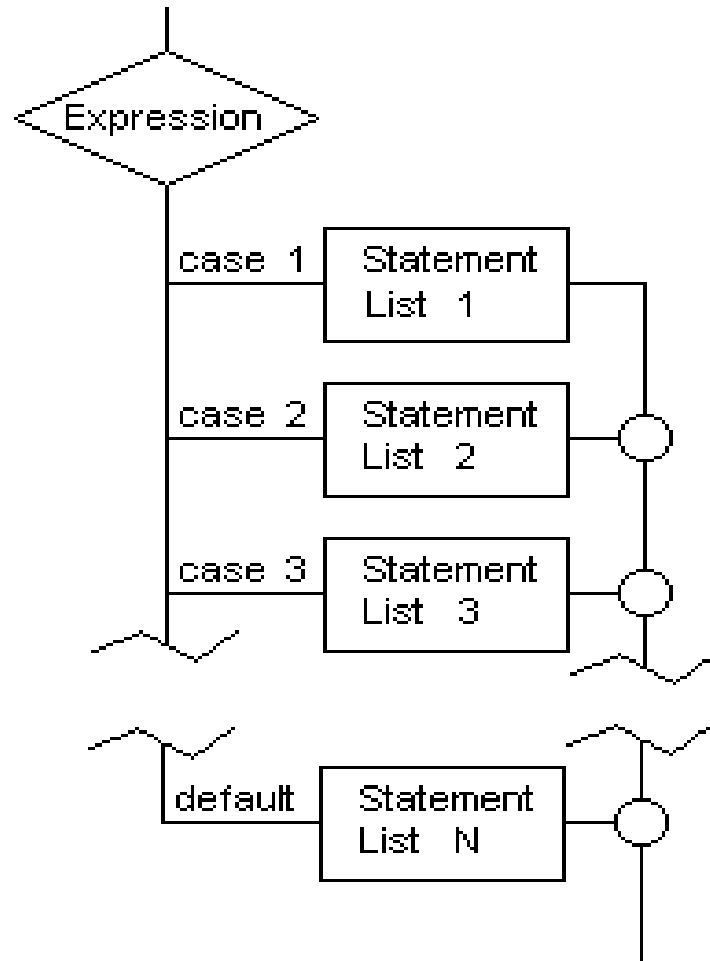
```
<?php  
    if ( $_nilai <= 35 ) {  
        $_grade='E';  
    } elseif ( $_nilai <= 55 ) {  
        $_grade='D';  
    }  
    ...  
    else {  
        $_grade='I';  
    } ...  
?>
```


Control Structure : IF .. ELSE



```
<?php
    $secretNumber = 453;
    $_POST['guess'] = 442;
    if ($_POST['guess'] == $secretNumber) {
        echo "<p>Congratulations!</p>";
    } elseif (abs ($_POST['guess'] - $secretNumber) < 10) {
        echo "<p>You're getting close!</p>";
    } else {
        echo "<p>Sorry!</p>";
    }
?>
```

Control Structure : Switch



```
switch (n) {  
    case label1:  
        code to be executed if n=label1;  
        break;  
    case label2:  
        code to be executed if n=label2;  
        break;  
    case label3:  
        code to be executed if n=label3;  
        break;  
    ...  
    default:  
        code to be executed if n is different from all labels;  
}
```

Control Structure : Switch

```
switch (n) {  
    case label1:  
        code to be executed if n=label1;  
        break;  
    case label2:  
        code to be executed if n=label2;  
        break;  
    case label3:  
        code to be executed if n=label3;  
        break;  
    ...  
    default:  
        code to be executed if n is different from all labels;  
}
```

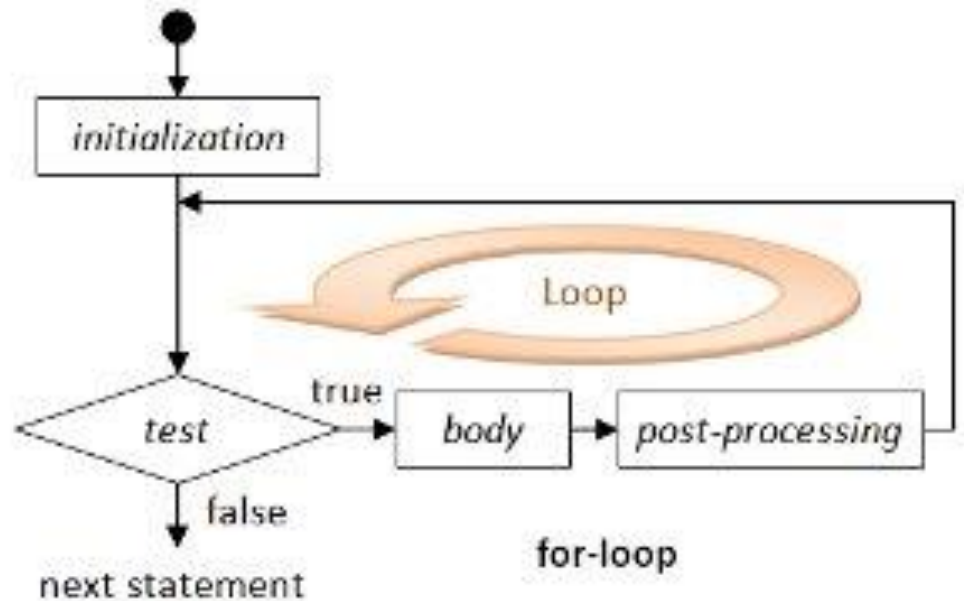
```
switch ( $_grade )  
{  
    case 'E' :  
        $_predikat = 'SANGAT KURANG';  
        break;  
    case 'D' :  
        $_predikat = 'KURANG';  
        break;  
    --  
    default :  
        $_predikat = 'TIDAK ADA';  
}
```

Control Structure : Switch

```
switch (n) {  
    case label1:  
        code to be executed if n=label1;  
        break;  
    case label2:  
        code to be executed if n=label2;  
        break;  
    case label3:  
        code to be executed if n=label3;  
        break;  
    ...  
    default:  
        code to be executed if n is different from all labels;  
}
```

```
<?php  
    switch($category) {  
        case "news":  
            print "<p>What's happening around the World</p>";  
            break;  
        case "weather":  
            print "<p>Your weekly forecast</p>";  
            break;  
        case "sports":  
            print "<p>Latest sports highlights</p>";  
            break;  
        default:  
            print "<p>Welcome to my Web site</p>";  
    }  
?>
```

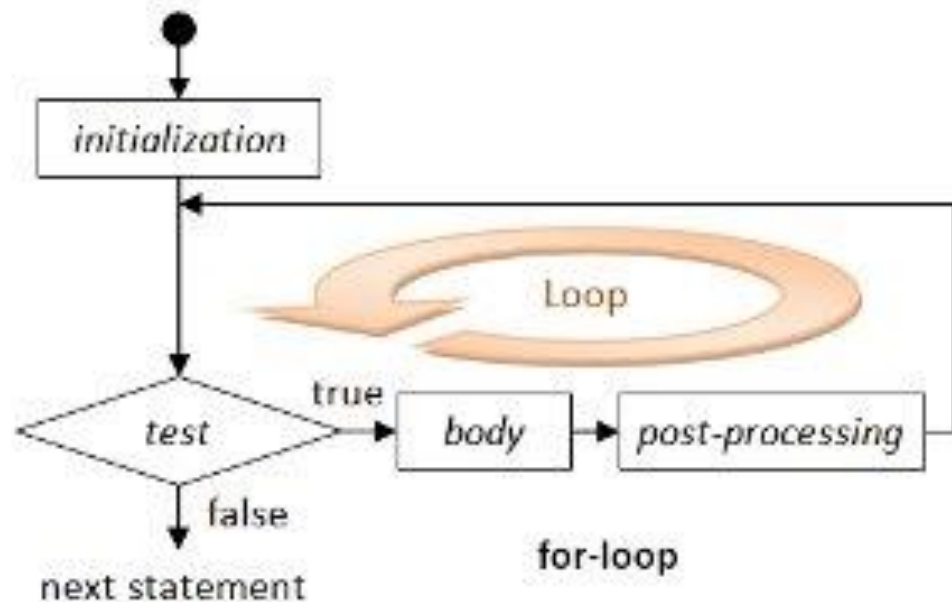
Looping For



```
for (expr1 ; expr2 ; expr3)
{
    blok statement
}
```

```
<select name="tgl">
<?php
for ( $x = 1 ; $x <= 30 ; $x++)
{
    echo '<option value=" '.$x.' ">'.$x.' '</option>';
}
?>
</select>
```

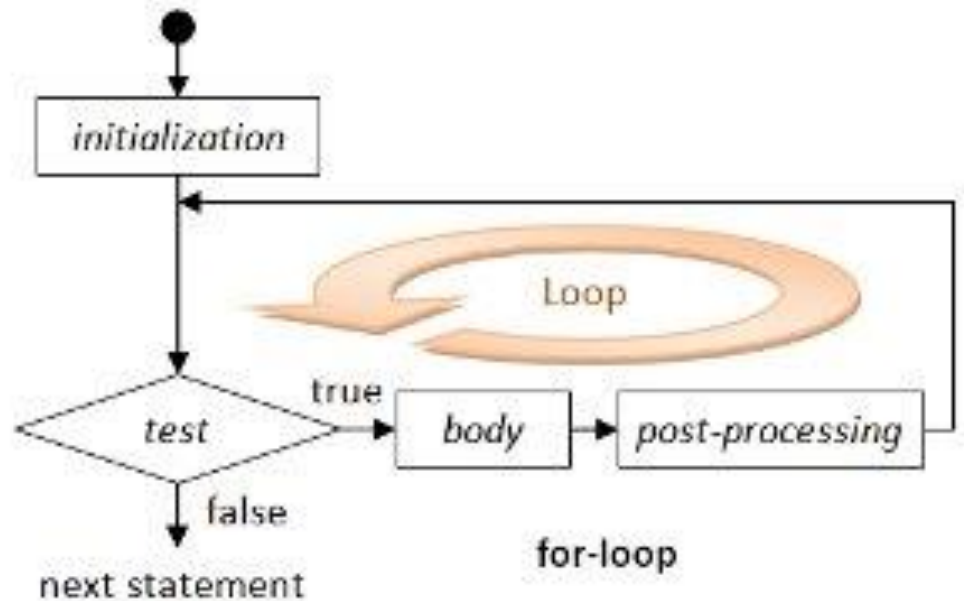
Looping For



- Expression 1 dievaluasi pada saat iterasi pertama
- Expression 2 dievaluasi pada saat awal disetiap iterasi, bagian ini menentukan apakah akan dilanjutkan iterasi berikutnya
- Expression 3 akan di eksekusi hasil dari logika untuk setiap loop

```
for (expression1; expression2; expression3) {  
    statements  
}
```

Looping For



```
for (expr1 ; expr2 ; expr3)
{
    blok statement
}
```

```
<select name="tgl">
<?php
for ( $x = 1 ; $x <= 30 ; $x++)
{
    echo '<option value=" '.$x.' ">'.$x.' '</option>';
}
?>
</select>
```

Looping Foreach : Array

- Looping khusus untuk Array

```
foreach (array_expr as $value) {  
    statement  
}
```

- Looping Array Assosiatif

```
foreach (array_expr as $key => $value) {  
    statement  
}
```


Looping Foreach : Array

- Looping khusus untuk Array

```
foreach (array_expr as $value) {  
    statement  
}
```

```
<?php  
$links = array("www.apress.com", "www.php.net", "www.apache.org");  
echo "<b>Online Resources</b>:<br />";  
foreach($links as $link) {  
    echo "<a href=\"http://$link\">$link</a><br />";  
}  
?>
```

Looping Foreach : Array Asosiatif

```
<?php
$ar_hari = [1=>'Senin', 'Selasa', 'Rabu', 'Kamis', 'Jumat', 'Sabtu', 'Minggu' ] ;
?>

<select name="hari">

<?php
foreach ( $ar_hari as $k => $v)
{
    echo '<option value="' . $k. '">' . $v. '</option>';
}
?>

</select>
```

Looping - Break

- Menghentikan secara paksa saat looping

```
<?php
    $primes = array(2,3,5,7,11,13,17,19,23,29,31,37,41,43,47);
    for($count = 1; $count++; $count < 1000) {
        $randomNumber = rand(1,50);
        if (in_array($randomNumber,$primes)) {
            break;
        } else {
            echo "<p>Non-prime number encountered: $randomNumber</p>";
        }
    }
?>
```

```
Non-prime number encountered: 48
Non-prime number encountered: 42
Prime number encountered: 17
```

Looping - Continue

- Lanjutkan ke looping berikutnya dengan mengabaikan baris dibawahnya (body looping tidak dieksekusi)

```
<?php
```

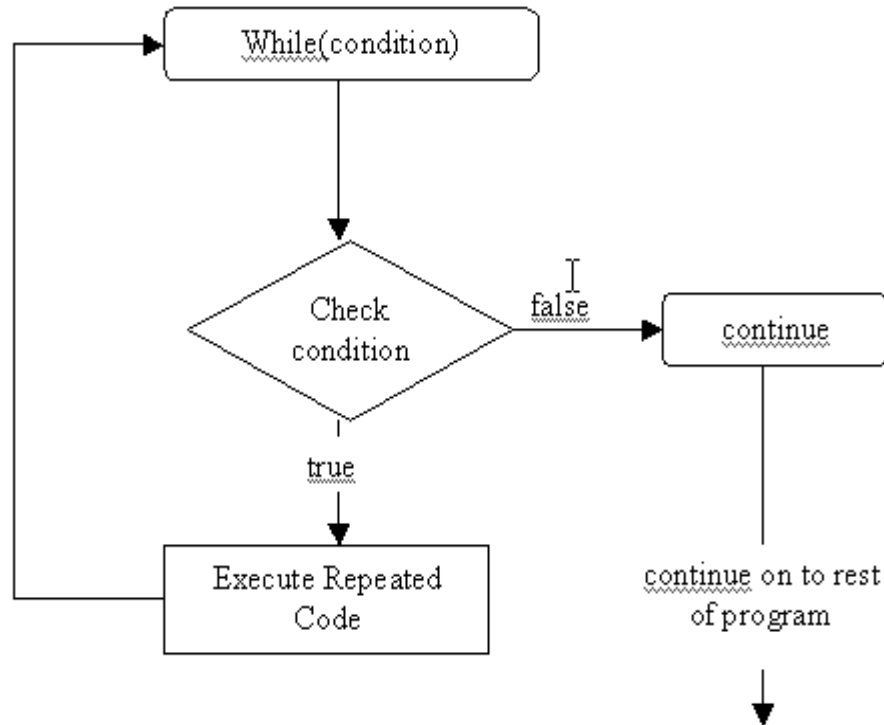
```
$usernames = array("grace","doris","gary","nate","missing","tom");  
for ($x=0; $x < count($usernames); $x++) {  
    if ($usernames[$x] == "missing") continue;  
    echo "Staff member: $usernames[$x] <br />";  
}
```

```
?>
```

```
Staff member: grace  
Staff member: doris  
Staff member: gary  
Staff member: nate  
Staff member: tom
```

Looping While

Flow Diagram of a while loop



// Contoh : cetak bilangan 1 s/d 12, 14 s/d 17

```
$x = 0;
```

```
while ( $x <= 20)
```

```
{
```

```
    $x++;
```

```
    if ( $x == 13 ) continue;
```

```
    echo '<br>Bilangan : '.$x;
```

```
    if ( $x == 17 ) break;
```

```
}
```

```
    echo '<br>Selesai';
```

Keyword break : digunakan untuk keluar dari looping

Keyword continue : digunakan untuk melanjutkan looping berikutnya dengan mengabaikan baris dibawahnya

Form Validation : Control Logic IF

- Memastikan data yang di isi melalui Form adalah valid !
- Tidak ada data yang kosong/spasi kosong (required field)
- Data sesuai dengan tipe data dan format yang diinginkan
 - Contoh : number – uang , date – tanggal, string - kode

Contoh: PHP Form Validation

PHP Form Validation Example

* required field

Name: *

E-mail: *

Website:

Comment:

Gender: ☐ Female ☐ Male ☐ Other *

Submit

```
<?php
// define variables and set to empty values
$name = $email = $gender = $comment = $website = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = test_input($_POST["name"]);
    $email = test_input($_POST["email"]);
    $website = test_input($_POST["website"]);
    $comment = test_input($_POST["comment"]);
    $gender = test_input($_POST["gender"]);
}

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
?>
```

https://www.w3schools.com/php/php_form_validation.asp

Contoh: PHP Form Required

```
<?php
// define variables and set to empty values
$nameErr = $emailErr = $genderErr = $websiteErr = "";
$name = $email = $gender = $comment = $website = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name is required";
    } else {
        $name = test_input($_POST["name"]);
    }

    if (empty($_POST["email"])) {
        $emailErr = "Email is required";
    } else {
        $email = test_input($_POST["email"]);
    }

    if (empty($_POST["website"])) {
        $website = "";
    } else {
        $website = test_input($_POST["website"]);
    }
}
```

```
if (empty($_POST["comment"])) {
    $comment = "";
} else {
    $comment = test_input($_POST["comment"]);
}

if (empty($_POST["gender"])) {
    $genderErr = "Gender is required";
} else {
    $gender = test_input($_POST["gender"]);
}
?>
```

https://www.w3schools.com/php/php_form_required.asp