

Unit-II
Lecture: 5
While and Do While Loops

PHP also supports loops i.e. the ability to repeat a series of actions until a pre-specified condition is fulfilled.

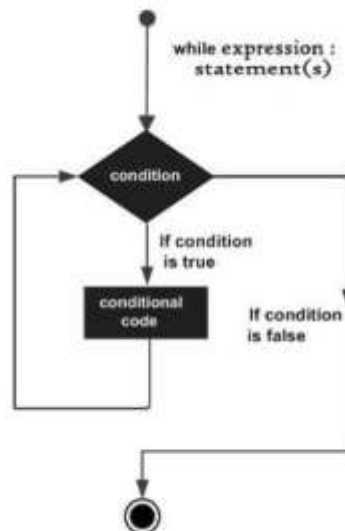
Loops help in automating repetitive tasks within a program.

The While Loop:

- The while loop repeats continuously while a prescribed condition is true.

- **Syntax:**

```
while (condition is true){  
    code to be executed;  
}
```



e.g.

```
<?php  
  
//repeat continuously until counter becomes 10  
  
$counter =1 ;  
  
while ($counter<10){  
  
echo 'x';  
  
$counter++;  
  
}  
  
?>
```

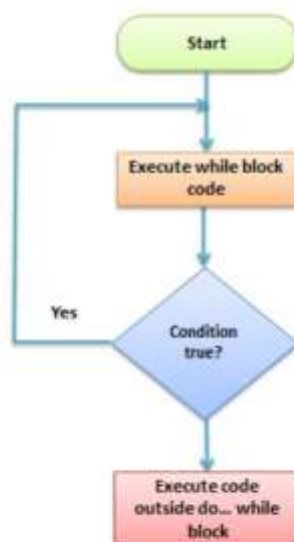
As long as the condition which is enclosed in parentheses evaluates to true, the code within the curly braces is executed. As soon as the condition becomes false, the loop stops repeating and the lines following the loop are executed in the usual fashion.

The do-while Loop:

The **do....while** loop- loops through a block of code once, it will then check the **condition and repeat the loop** while the specified condition is true.

Syntax:

```
do {  
    code to be executed;  
} while (condition is true);
```



- **The difference between while...loop and Do---while loop is that Do---while is executed at-least once before the condition is evaluated.**

i.e. with a while loop, the condition to be evaluated is tested at the beginning of each loop iteration, so if the conditional expression evaluates to false, the loop will never be executed.

With a do-while loop, on the other hand, the loop will always be executed once, even if the conditional expression is false, because the condition is evaluated at the end of the loop iteration rather than the beginning.