# WEB APPLICATION DEVELOPMENT

#### SERVER SIDE PROGRAMMING -CONDITIONAL STATEMENTS

PHP SCRIPTING LANGUAGE

MYSQL DATABASE

**APACHE SERVER** 



# CONDITIONAL STATEMENTS

- In PHP we have the following conditional statements:
  - if statement use this statement to execute some code only if a specified condition is true
  - **if...else statement** use this statement to execute some code if a condition is true and another code if the condition is false
  - if...elseif....else statement use this statement to select one of several blocks of code to be executed
  - switch statement use this statement to select one of many blocks of code to be executed

# THE IF STATEMENT

- Use the if statement to execute some code only if a specified condition is true.
- Syntax

if (condition) code to be executed if condition is true;

Example
 Write a PHP Program If the date is Friday print Have a nice weekend on screen.

# **EXAMPLE**

# THE IF ...ELSE STATEMENT

#### Syntax

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

Example

 Write PHP coding if it is hot then turn on the air conditioner otherwise turn on heater.

# **EXAMPLE**

```
<html>
<body>
     <?php
    if ($a=="hot") {
        echo "Turn on air-conditioner";
    else {
       echo "Turn on heater";}
     ?>
</body>
</html>
```

# THE IF...ELSE IF...ELSE STATEMENT

#### Syntax

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

 Write PHP coding if it is hot then turn on the air conditioner, for warm weather give a message Enjoy the weather otherwise turn on heater.

# **EXAMPLE**

</html>

```
<html>
<body>
     <?php
      if ($a=="hot") {
          echo "Turn on air-conditioner";
      if else ($a=="warm") {
         echo "Enjoy the weather";
      else {
         echo "Turn on heater";
    ?>
</body>
```

# **EXERCISE**

- Write a program to show discount according to number of books.(Number of books = 15)
  - 10<=books<=20 Discount-15%
  - 20<books<=30 Discount-20%
  - books>30 Discount-30%

# **EXERCISE**

- Write a PHP program to check whether value of assigned variable is one.
- Modify above PHP program to check whether value of assigned variable is I- one or 2- two or 3-three).

```
$i = 1;
if (\$i == 1) {
                                             One
      print("One");
$i = 2;
if ($i == 1) {
       print("One");
} elseif ($i == 2) {
                                              Two
        print("Two");
} else
        print("Other");
```

# THE SWITCH STATEMENT

Syntax

```
switch (n)
    case label1:
    code to be executed if n=label1;
    break;
   case label2:
    code to be executed if n=label2;
     break;
   default:
    code to be executed if n is different from both label 1 and label2;
```

# **TRY**

```
<html>
<head>
<title>switch</title>
</head>
<body>
<?php
$mood = "sad";
switch ($mood)
case "happy": print "Hooray, I'm in a good mood"; break;
case "sad": print "Awww. Don't be down!"; break;
default: print "Neither happy nor sad but $mood";
</body>
</html>
```

# **EXERCISE**

- Write PHP code for finding the number of days in a month.
- Write PHP code for display the day when give as short name of day.(ex Mon -> Monday)

```
<?php
        /* write PHP code for finding the number of days in a
                                                                    case 2:
month*/
                                                                    echo "The number of days = 28";
        a= 3;
                                                                    break;
        switch ($a)
                                                                    case 4:
                                                                    case 6:
        case 1:
                                                                    case 9:
        case 3:
                                                                    case 11:
        case 5:
                                                                    echo "The number of days = 30";
        case 7:
                                                                    break;
        case 8:
                                                                    default:
        case 10:
                                                                    echo "Error";
        case 12:
                                                                    break;
echo "The number of days = 31";
break;
```

print("Thursday")

break;}

```
<?php
                                                        case "Fri":{
$day="Thu";
                                                        print("Friday");
switch($day){
                                                       break;}
case "Mon":{
                                                       case "Sat":{
print("Monday");
                                                       print("Saturday");
break;}
                                                       break;}
case "Tue":{
                                                       case "Sun":{
print("Tuesday");
                                                        print("Sunday");
break;}
                                                        break;}
case "Wed":{
                                                        default: {
print("Wednessday");
                                                        print("error");}
break;}
case "Thu":{
                                                        ?>
```

### PHP LOOPING STATEMENTS

- Loops execute a block of code a specified number of times, or while a specified condition is true.
- In PHP, we have the following looping statements:
  - while loops through a block of code while a specified condition is true
  - do...while loops through a block of code once, and then repeats the loop as long as a specified condition is true
  - for loops through a block of code a specified number of times
  - foreach loops through a block of code for each element in an array

# WHILE LOOP

- The while loop executes a block of code while a condition is true.
- Syntax

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

• Write a PHP coding to print 0 - 9 digits on the screen.

```
$i = 0;
while ($i<10) {
    print($i);
    $i++;
};</pre>
0123456789
```

# THE DO... WHILE STATEMENT

- The do...while statement will always execute the block of code once, it will then check the condition, and repeat the loop while the condition is true.
- Syntax

```
do
{
    code to be executed;

• Write code for p
while (condition);
```

```
$i = 0;
do {
    print($i);
    $i++;
} while ($i < 10);</pre>
0123456789
```

 Note: Due to the expression being evaluated at the end of the structure, statement(s) in the do...while loop are executed at least once, even if the condition is false

### FOR LOOP

- Loops execute a block of code a specified number of times, or while a specified condition is true.
- Syntax

```
for (init; condition; increment)
  {
     code to be executed;
  }
```

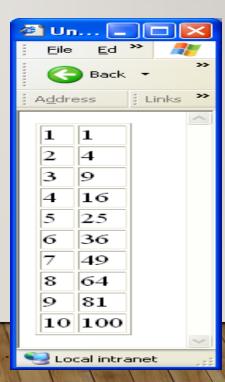
- Parameters:
- init: Mostly used to set a counter (but can be any code to be executed once at the beginning of the loop)
- **condition:** Evaluated for each loop iteration. If it evaluates to TRUE, the loop continues. If it evaluates to FALSE, the loop ends.
- executed at the end of the loop).

# **EXERCISE**

write code to print 0 to 9 using for loop.

Write a program to display following using for

loop.(square of 1 to 10)



```
<?php
   /* write code to print 0 to 9 using for loop. */
   $a=0;
   for ($a=0;$a<10;$a++)
   {
       echo $a."<br/>}
```

```
for ($i=1; $i<10; $i++) {
    print($i);
}</pre>
```



# TRY

```
<?php
for ($i=1;$i<11;$i++)
{
    $j=$i*$i;
?>

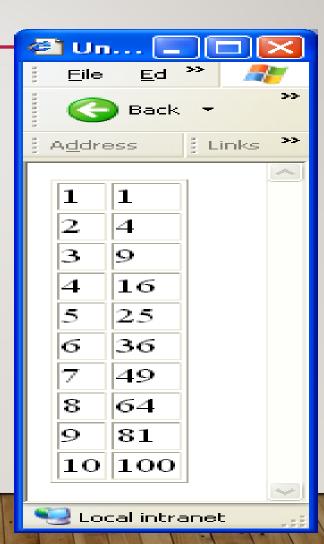
        <?echo $i?>
        <</td>
        <</td>

        <</td>
        <</td>
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        <</td>
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        <</td>
        <</td>
```



# FOREACH LOOP

- The foreach loop is used to loop through arrays.
- Syntax

```
foreach ($array as $value)
{
    code to be executed;
}
```

# **EXAMPLE**

```
<?php
    $x=array("Monday"," Tuesday "," Wednesday ",
"Thursday", "Friday");
    foreach ($x as $value)
    {
        echo $value . "<br />";
    }
}
```

### **BREAK AND CONTINUE**

- The break command will break the loop and continue executing the code that follows after the loop (if any).
- E.g.

```
for ($i=1; $i<10; $i++) {
    if ($i==3) break;
    print($i);
}</pre>
```

# **BREAK AND CONTINUE**

- The continue command will break the current loop and continue with the next value.
- E.g.

```
for ($i=1; $i<10; $i++) {
    if ($i==3) continue;
    print($i);
}</pre>
12456789
```

# USING THE? OPERATOR / CONDITIONAL OPERATOR

 The ? or ternary operator is similar to the if statement but returns a value derived from one of two expressions separated by a colon. Which expression is used to generate the value returned depends on the result of a test expression

(expression)?returned\_if\_expression\_is\_true:returned\_if\_expression\_is\_false;

 If the test expression evaluates to true, the result of the second expression is returned; otherwise, the value of the third expression is returned.

### CONDITIONAL OPERATOR

- PHP also contains a conditional operator that assigns a value to a variable based on some condition.
- E.g.

# **TRY**

</html>

```
<html>
                                   $mood is set to "sad". $mood is
                                      tested for equivalence to the
<head>
                                      string "happy". Because this test
<title>Listing 5.5</title>
                                      returns false, the result of the
                                      third of the three expressions is
</head>
                                      returned. The ternary operator
<body>
                                      can be difficult to read but is
                                      useful if you are dealing with only
<?php
                                   two alternatives and like to write
mood = "sad";
                                      compact code.
$text = ( $mood=="happy" )?"Hooray, I'm in a good mood":"Not happy but $mood";
print "$text";
?>
</body>
```