PHP

Scripting Language

Tags

```
<html>
<head><title>Test Web
    Page</title></head>
<body>
<h1> Test Page Heading
    </h1>
<?php
<p>
print "This text is inserted
    by PHP.";
print "<hr>";
?>
</body>
</html>
```


Commenting PHP

```
<html>
<head><title>Test Web Page</title></head>
<body>

<h1> Test Page Heading </h1>
<p>
<?php
// now let's be good programmers and
// comment this script
print "This text is inserted by PHP.";
print "<hr>";
?>
</body>
</html>
```
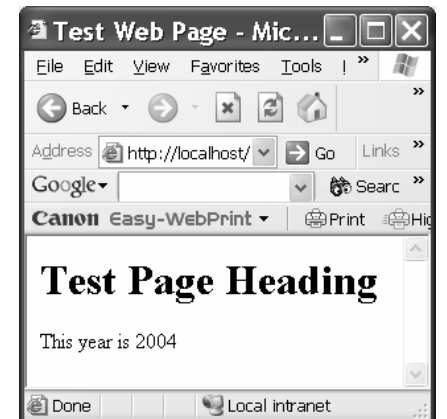
Using Variables

```
<html>
<head><title>Test Web
    Page</title></head>
<body>

<h1> Test Page Heading </h1>
<p>
This year is
<?php
// now let's be good programmers and
// comment this script
$thisYear=2004;
print $thisYear;
?>
</body>
</html>
```
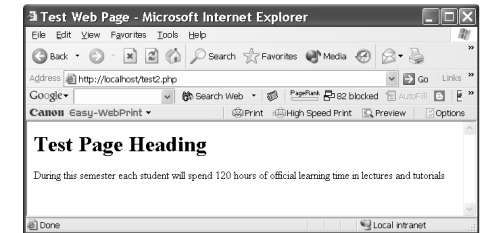
Constants

```
<html>
<head><title>Test Web
     Page</title></head>
<body>

<h1> Test Page Heading </h1>
<p>
This year is
<?php
// now let's be good programmers and
// comment this script
define("NAME","Jane Jones");
$thisYear=2004;
print $thisYear;
print "<br>My name is ";
print NAME;
?>
</body>
</html>
```


Calculating


```
During this semester each student will spend
<?php
// now let's be good programmers and
// comment this script
define("lectures",20);
define("modules",4);
define("tutorials",10);
$hours = lectures*modules + tutorials*modules;
print $hours;
print " hours of official learning time in lectures and tutorials";
?>
```

If and Else


```
During this semester each student will spend
<?php
define("lectures",20);
define("modules",4);
define("tutorials",10);
$hours = lectures*modules + tutorials*modules;
print $hours;
print " hours of official learning time in lectures and tutorials";
print "<p>";
print "That is ";
if ($hours < 10) print "very little";
else {
    if ($hours < 80) print "not too bad";
    else print "a lot!";
}
?>
```
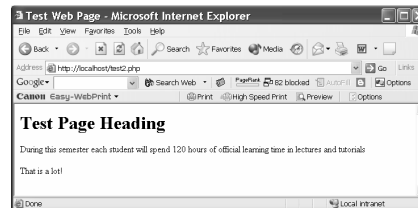
For
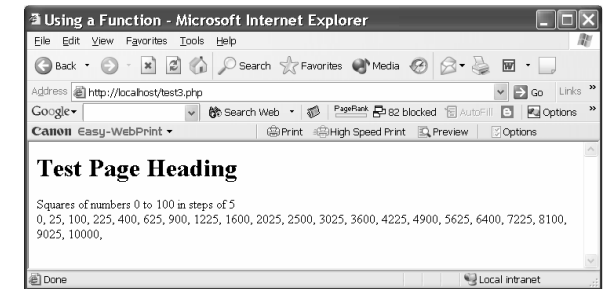


```
Count from 0 to 100 in steps of 5
<?php
// now let's be good programmers and
// comment this script
for ($counter = 0; $counter<101; $counter+=5)
{
    print $counter;
    print ", ";
}
?>
```
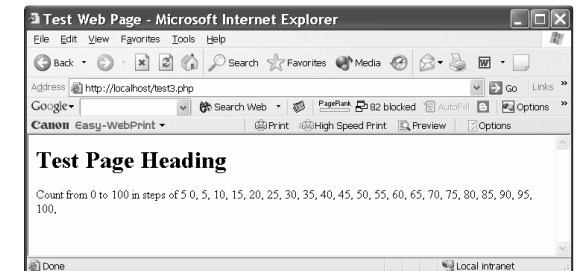
Other Control Statements

- While
  - While ($counter < 100) …
- Switch
  - Switch($var)
  - {
    - Case "red";
      - Print "the colour is red";
  - }

Functions


```
Squares of numbers 0 to 100 in steps of 5 <br>
<?php

function square($num) {
    $sq=$num*$num;
    print $sq;

}

for ($counter = 0; $counter<101; $counter+=5)
{
    square( $counter);
    print ", ";
}
?>
```

Returning a Value

```
Squares of numbers 0 to 100 in steps of 5 <br>
<?php

function square($num) {
    $sq=$num*$num;
    return $sq;

}

for ($counter = 0; $counter<101; $counter+=5)
{
    print (square( $counter));
    print ", ";
}
?>
```
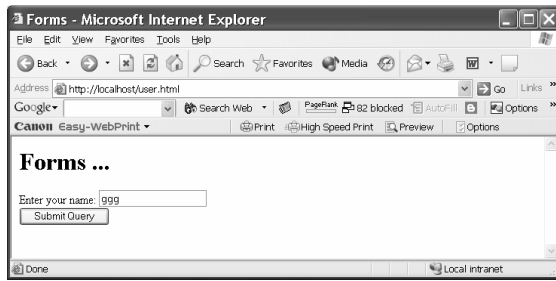
Passing By Reference

```
Squares of numbers 0 to 100 in steps of 5 <br>
<?php

function square(&$num) {

    $num=$num*$num;

}

for ($counter = 0; $counter<101; $counter+=5)
{
    $c = $counter;
    square($c);
    print ($c);
    print ", ";
}
?>
```

Forms

```
<html>
<head><title>Forms</title></head>
<body>

<h1> Forms ... </h1>
<p>
<form action="processforms.php" method="get">
Enter your name:
<input type="text" name="userName"><br>

<input type="Submit" name="Submit">
</form>

</body>
</html>
```
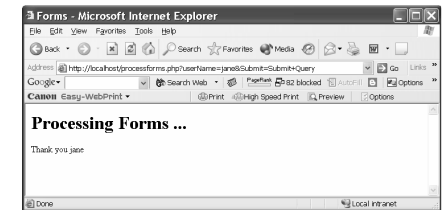
Processing Form

```
<?php
if (empty($userName)) print "You did not enter a user
   name";
else
{
   print "Thank you $userName<br>";
}
?>
```

Accessing a Database

Table users	
Name	**Mark**
Jane	10
Jim	98
Joel	12
Janice	34
Jhantara	76
Jenny	87

Connecting to the Database

$linkID=@mysql_connect("host", "user",
        "password");

Check linkID afterwards to check for success
if ($linkID == FALSE) print "Couldn't establish the link
   to the database";

CLOSE THE CONNECTION

mysql_close($linkID);

Select the Database

```
$linkID=@mysql_connect ("host", "user",
        "password");

if ($linkID == FALSE) print "Couldn't establish
  the link to the database";
else {
  mysql_select_db("test",$linkID);
}
```

Query the Database

```
$query = "SELECT * FROM USERS";

$resultID=mysql_query($query,$linkID);

  if ($resultID ==FALSE)  {
            print "Could not carry out query:";
            print $query;
  }
```

Processing the Result

```
  if ($resultID !=FALSE) {

      print "Results of query are:<br>";

      while ($row = mysql_fetch_row($resultID)) {

            foreach ($row as $field)  {
                  print $field;
                  print " ,";
            }
            print "<br>";
      }
  }
```
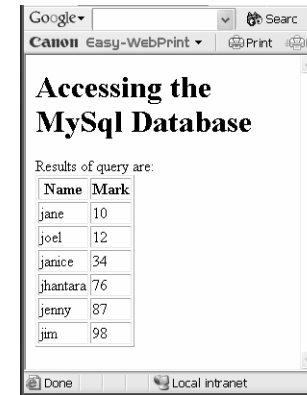
Result!

What does this do?

```
mysql_select_db("test",$linkID);

$resultID=mysql_query("Select * from users order by
mark,name",$linkID);

if ($resultID !=FALSE) {
        print "Successful query<br><br>";
        print "Results of query are:<br>";
        while ($row = mysql_fetch_row($resultID)) {
                foreach ($row as $field)  {
                        print $field;
                        print " ,";
                }
                print "<br>";}}
```
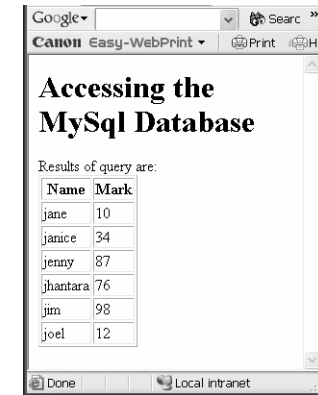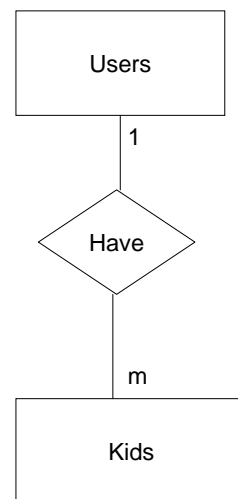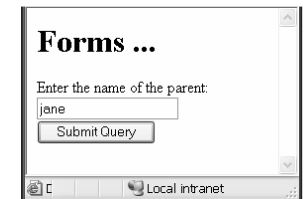
Which One?

A   **B**

Table kids

```
+----------+---------+
| name     | kidname |
+----------+---------+
| jane     | ira     |
| jane     | isabel  |
| jane     | isaiah  |
| janice   | Xixo    |
| jenny    | lindiwe |
| jenny    | lulu    |
| jhantara | keagan  |
| jhantara | keanu   |
| jhantara | kiki    |
| jim      | marge   |
| jim      | mary    |
| jim      | myra    |
+----------+---------+
```


Kids.html


```
<html>
<head><title>Forms</title></head>
<body>

<h1> Forms ... </h1>
<p>
<form action="array.php" method="get">
Enter the name of the parent:
<input type="text" name="userName"><br>

<input type="Submit" name="Submit">
</form>

</body>
</html>
```
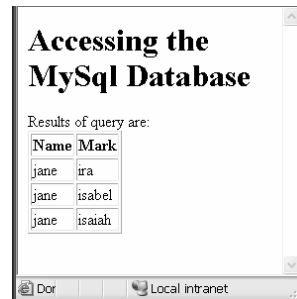
Querying the database

```
$query = "Select * from kids where name='".$userName."'";

$resultID=mysql_query($query,$linkID);

if ($resultID !=FALSE) {

        print "Results of query are:<br>";

        print "<table border=1><tr><th>Name</th>";
        print "<th>Child</th></tr>";

        while ($row = mysql_fetch_row($resultID)) {
        print "<tr>";
                foreach ($row as $field)  {
                        print "<td>$field</td>";
                }
                print "</tr>";
        }}
```
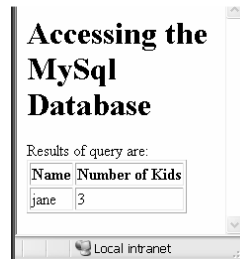

Accessing the MySql Database

Results of query are:

Name	Mark
jane	ira
jane	isabel
jane	isaiah

Dor — Local intranet

Querying the database

```
$query = "Select count(*) as C from kids where name='".$userName."'";

$resultID=mysql_query($query,$linkID);

if ($resultID !=FALSE) {

        print $userName
        print "has"

        $row = mysql_fetch_array($resultID);
        print $row[ "C" ];
}
```

Fixing the output

Accessing the MySql Database

Results of query are:

Name	Number of Kids
jane	3

Local intranet

```
$query = "Select count(*) as C from kids where
name=\"$userName\" ";

$resultID=mysql_query($query,$linkID);

if ($resultID !=FALSE) {

        print "Results of query are:<br>";

        print "<table border=1><tr><th>Name</th>";
        print "<th>Number of Kids</th></tr>";
        print "<tr><td>$userName</td>";

        $row = mysql_fetch_array($resultID);
                print "<td>$row[ "C" ]</td>";
        print "</tr>";
}
```
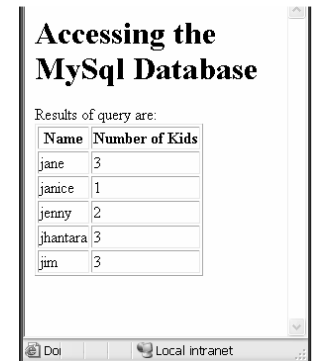

How many kids each?

Accessing the MySql Database

Results of query are:

Name	Number of Kids
jane	3
janice	1
jenny	2
jhantara	3
jim	3

Doi — Local intranet

```
$query = "Select name, count(*) from kids group by name";

$resultID=mysql_query($query,$linkID);

if ($resultID !=FALSE) {

        print "Results of query are:<br>";

        print "<table border=1><tr><th>Name</th>";
        print "<th>Number of Kids</th></tr>";


        while ($row = mysql_fetch_row($resultID)) {
        print "<tr>";
                foreach ($row as $field)  {
                        print "<td>$field</td>";
                }
                print "</tr>";
                }}
```
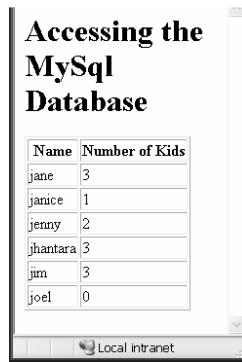
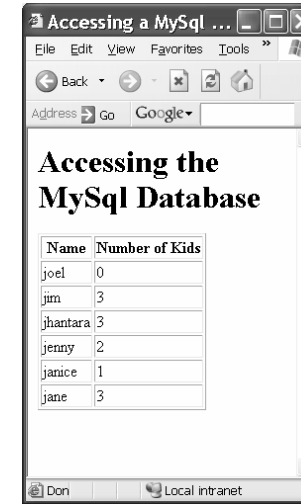# Using 2 queries

```
$query1 = "Select name from users";
$resultID=mysql_query($query1,$linkID);
if ($resultID !=FALSE) {
        // now work through the names
        print "<table border=1><tr><th>Name</th>";
        print "<th>Number of Kids</th></tr>";
        while ($row = mysql_fetch_object($resultID)) {
        print "<tr>";
                $nm = $row->name;
                $query2 = "Select count(*) as numKids from kids where name ='".$nm."'";
                $resultID2=mysql_query($query2,$linkID);
                $countRow = mysql_fetch_object($resultID2);
                print "<td>$nm</td>";
                print "<td>$countRow->numKids</td>";
                print "</tr>";          }}
```


How did I get this?

Attracting Attention


```
if ($nm == $userName) {
print"<td><b>".strtoupper($nm)."</b></td
   >";
   }
else print "<td>$nm</td>";
```

Put the values into an array

```
$query1 = "Select name from users order by name desc";
$resultID=mysql_query($query1,$linkID);
$count=0;
if ($resultID !=FALSE) {
        while ($row = mysql_fetch_object($resultID)) {
        $nm = $row->name;
        $query2 = "Select count(*) as numKids from kids where name = '".$nm."'";
        $resultID2=mysql_query($query2,$linkID);
        if ($resultID2 != FALSE) {
                $countRow = mysql_fetch_object($resultID2);
                $numKids = $countRow->numKids;
        }
        else $numKids=0;
        $arrayEntry = array("num" => $numKids, "name" => $nm );
        $allResults[$count]=$arrayEntry;
        $count++;
        }
```

Sort and Print
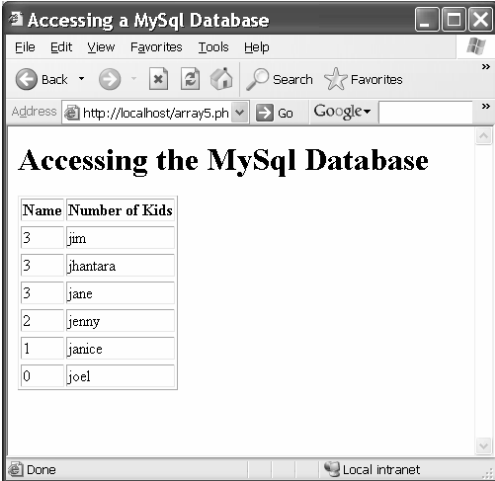
```
arsort($allResults,SORT_REGULAR);

// now print
print "<table border=1><tr><th>Name</th>";
print "<th>Number of Kids</th></tr>";

foreach ($allResults as $number => $user) {
print "<tr>";

        print "<tr>";
        foreach ($user as $value) {
                print "<td>$value</td>";
        }
        print "</tr>";
    }
}
```
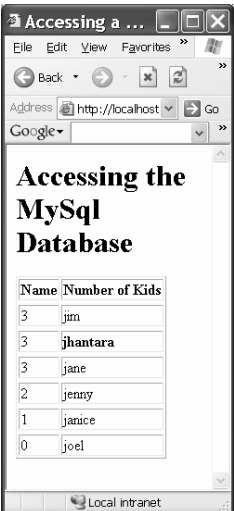
The result

Accentuate a particular name

```
if ($value == $userName)
    print "<td><b>$value</b></td>";
else print "<td>$value</td>";
```