CO551 Open Source Systems Assignment 1 Logbook

Student Name	Robert Collcott
Student ID Number	21302939
Module title and code	CO551 Open Source Systems
Session Day	Tuesday
Time	9:30 AM to 12PM
Lecturer	Indrachapa Bandara [IB]

Contents

Key Concepts and tools used in CO551 Open Source Systems Assignment 1 5
Win SCP 5
PHP 6
PUTTY 6
MY SQL 6
My SQL and php my admin 6
Week 1 Exercise 1 – the php version overview script 8
Week 1 Exercise 2 – Server name and protocol print out 9
Week 1 Exercise 3 – The Blimmy It worked 10
Week 1 Exercise 4 – mini calendar script 11
Week 1 Exercise 5 – favourite module script 12
Week 1 Exercise 6 – Richard Mather's name 13
Week 1 Exercise 7 – Hour rates per week and overall gross hours 14
Week 2 Exercise 1 – The Gross wage for the week script 16
Week 2 Exercise 2 – The none of your business script 17
Week 2 Exercise 3 – Grade boundaries script 18
Week 2 exercise 4 – The speed camera advise script 19
Week 2 exercise 5 – Browser alert message script 20
Week 2 exercise 6 – Index arrays mark script 21
Week 2 exercise 7 – the must behave script with a for loop inclusion 22
Week 2 exercise 8 – top modules array script 23
Week 2 exercise 9 – array index of 5 times tables top modules script 24
Week 2 exercise 10 – Year by Year grades average and best year script 25
Week 2 exercise 11 – Favourite modules script 26
Week 2 exercise 12 – top modules in array table scripts 27
Week 3 Exercise 1 – Submitting a name and job to a gross wage for the week script 32
Week 3 Exercise 2 – the big translator script 34
Week 3 Exercise 3 – input of age and gender in a simple form to determine drinking is permitted or not permitted 37
Week 3 Exercise 4 – selecting appropriate course certification level page and script 39
Week 3 Exercise 5 – Mini Guestbook script project 41
Week 4 Exercise 1 - Part 1 of the script selecting the qty of widgets required and selecting colour without using any variables 45
Week 4 Exercise 2 - Part 2 of the script selecting the colour of widgets 47
Week 4 Exercise 3 – Widget shop using Session variables 49
Week 4 Exercise 5 – the overall design structure of client pages forms and server pages how its all going to link together in UML notation 51
Using Cookies to store data which is quality and colour 52
Cookies in php overview 52

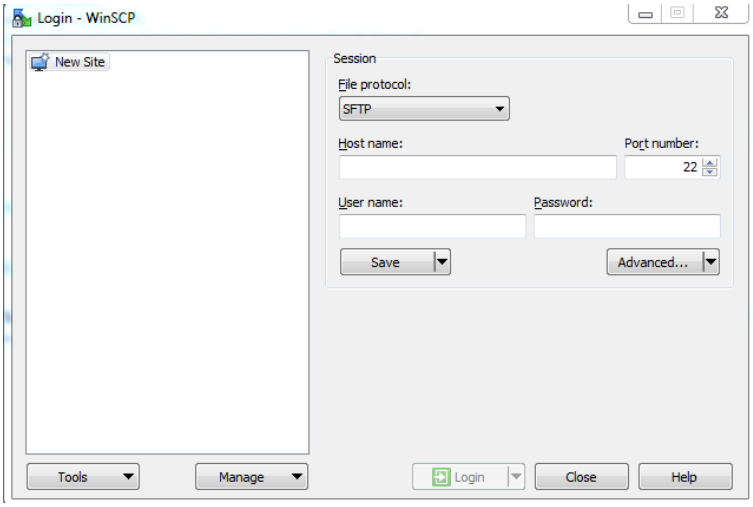
Week 5 Exercise 1 - Logging in configuring PUTTY terminal program 54
Week 5 Exercise 2 – creating a table in the my sql command line 55
Week 5 Exercise 3 – show the columns using the my sql command line 56
Week 5 Exercise 4 – inserting a new field and info into the table using the my sql command line 56
Week 5 exercise 5 – using the my sql to select all the data from the table named test 57
Week 5 exercise 6 – inserting 3 new records into the table named test using command line 57
Week 5 exercise 7 – deleting data using the my sql command line prompt 58
Week 5 exercise 8 – changing the name of bunny from Bags Bunny to daffy duck using my sql command line in PUTTY 58
Week 6 Exercise 1 – using a windows text editor to send an email name and tel number to the table named test 60
Week 6 Exercise 2 63
Week 6 Exercise 3 65
Week 6 Exercise 4 66
Week 6 Exercise 5 – using an include file to include and demo functions using the php language 67
Week 6 Exercise 6 – Salary and tax and tax pay 1 script 1 68
Week 6 Exercise 7– Salary and tax and tax pay 2 script 2 69
Week 6 Exercise 8 – Salary and tax and tax pay 3 script 3 70
Week 7 Exercise 1 – creating table named monster using the my sql command line 72
Week 7 Exercise 2 – capturing data to send to monster table 73
Week 7 Exercise 3 – Inserting name image and audio file into monsters table using php scripts 75
Week 7 Exercise 3 – Inserting name image and audio file into monsters table using php scripts continued 76
Week 7 Exercise 4 77
Displaying info about monsters in a table on a web page 78
Week 7 Exercise 5 79
Week 7 Exercise 6 80
Week 8 Exercise 1 – lottery numbers for a date script 81
Week 8 Exercise 2 – Creation of lotto table in db1_21302939 using the int web server php my admin portal 83
Week 8 Exercise 3 – inserting and storing lotto numbers data in the lotto table script 84
Week 8 Exercise 4 – selecting lotto weeks script 86
Week 8 Exercise 5 87

Note to CO551 Open Source Systems Assignment 1 Marker

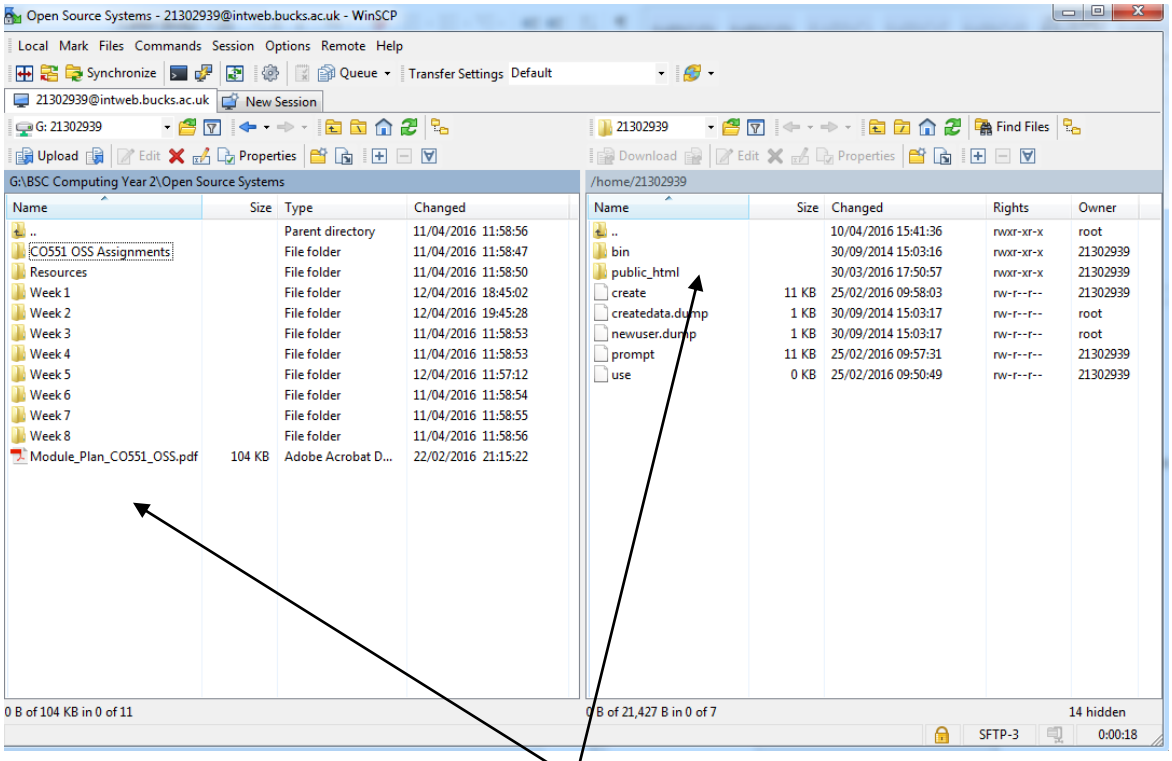
Logbook Starts on Page 5

Win SCP

This is the program that is the FTP client which I had to login with my uni ID number and network password in order to test php scripts to see if they worked correctly



I had to login into the Win SCP program tow with my uni number and network password



All the stuff I wanted to test had to go into public_html

Left side my user area and right side the int web remote web server that students use

PHP

This is a scripting language that is open source which means it's free to use and download. Originally php stood for **Personal home page tools**, in this modern day though it stands for hypertext pre processor

Because php being a server side language you can only test scripts work on a server as when you make them complicated you can connect them to databases which can only work on servers

PUTTY

This is what I used to learn my sql with PHP, Putty is a free open source terminal emulator serial console and network FTP application. The network protocols it supports are

- SCP
- SSH
- Telnet

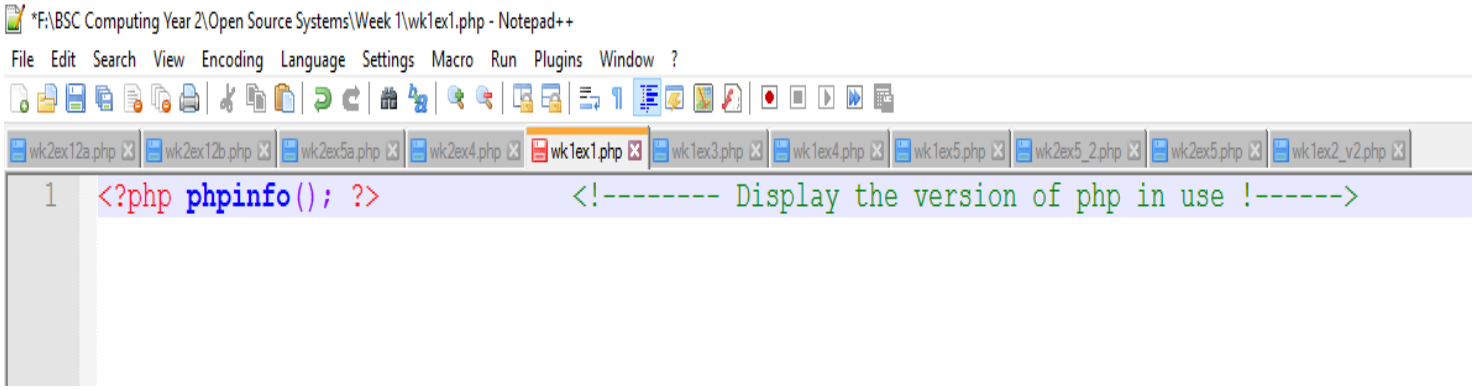
PUTTY I also used to get to grips with logging into the int web server in a different way creating tables and setting up databases such as my one named **db1_21302939**

My SQL and php my admin

I used my sql in my assignment to create scripts that involved a database to run on a server as in Bucks case this is the intweb one and I can check it by using php my admin.

Php my admin is a tool that works with My SQL to view and check databases database tables and modify them by adding amending and delete records. E.g. such as changing the data type of a field

Week 1 Exercises

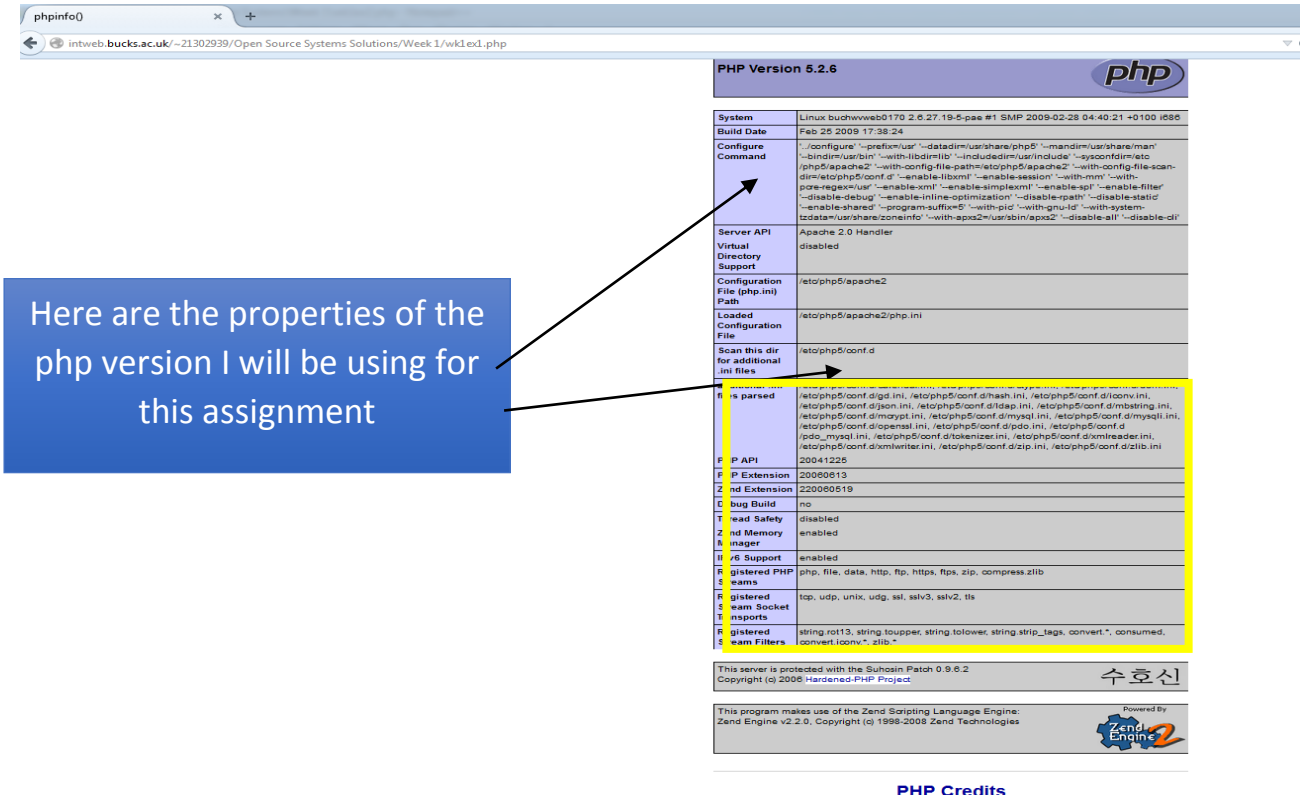


Source Code

In this exercise all I was doing was getting the info of the version in use for the php tasks throughout the assignment **result of script**

Here is the output of the task I created using the php info code it looks like I will be using php version 5.2.6 for these tasks throughout this assignment.

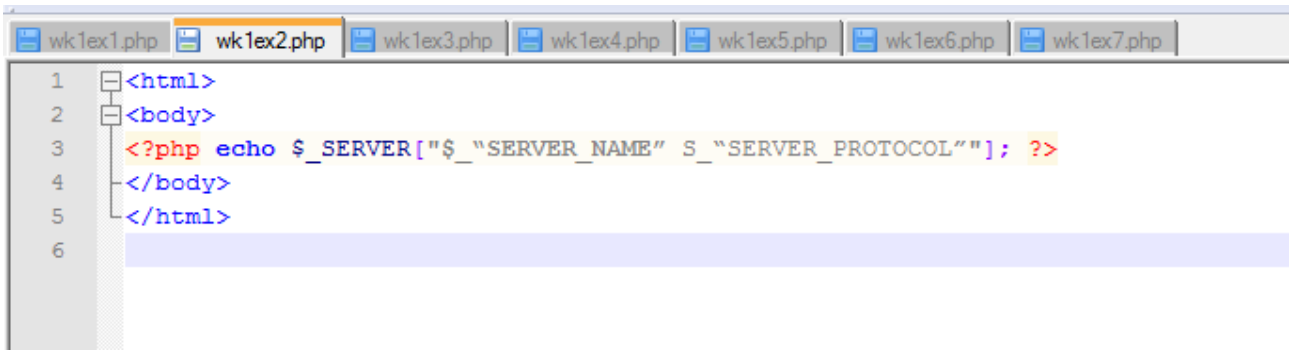
It also gives me details such as what platform apache is on



Week 1 Exercise 2 – Server name and protocol print out

Source code

Here all I am asking the php script to do is print out the server name and server protocol used



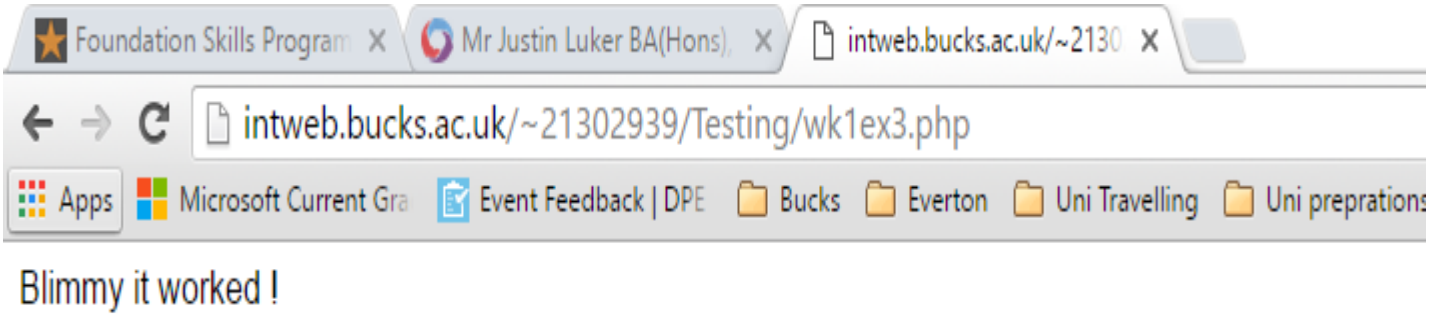
Output

The Script works but for some reason when I tested it nothing printed out on the screen

Source Code

```
1  <html>       <!-------- Start HTML !------>
2  <body>       <!-------- Open the HTML body  !------>
3
4  <?php        // start a php script
5
6      echo 'Blimmy it worked !';          // print out the following message
7
8      // end the php script
9
10 ?>
11
12 </body>      <!-------- Close the HTML body  !------>
13 </html>      <!-------- Close HTML  !------>
14
```

Here I am just printing out a simple message Blimey it worked by using the echo word using the word echo in php prints out messages when it's just php on its own or with HTML included as well



Output of script

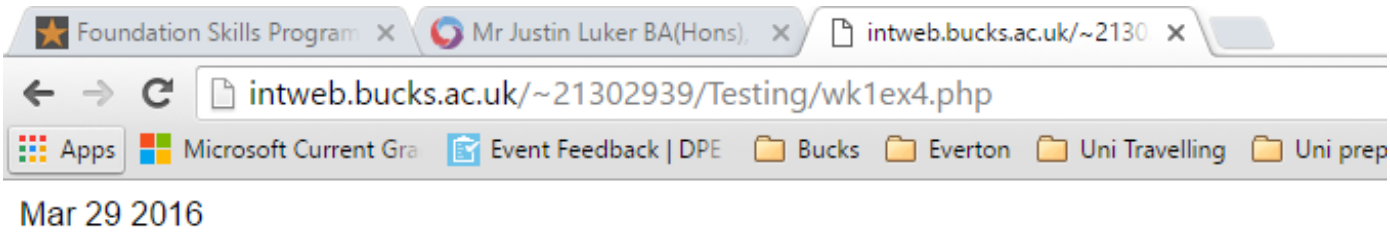
Here you can see the output of the source code and the message in quotes using the echo command as in php echo means print out to screen in our case the web browser of our choice which by default on the uni machines is **Google Chrome**

Week 1 Exercise 4 – mini calendar script

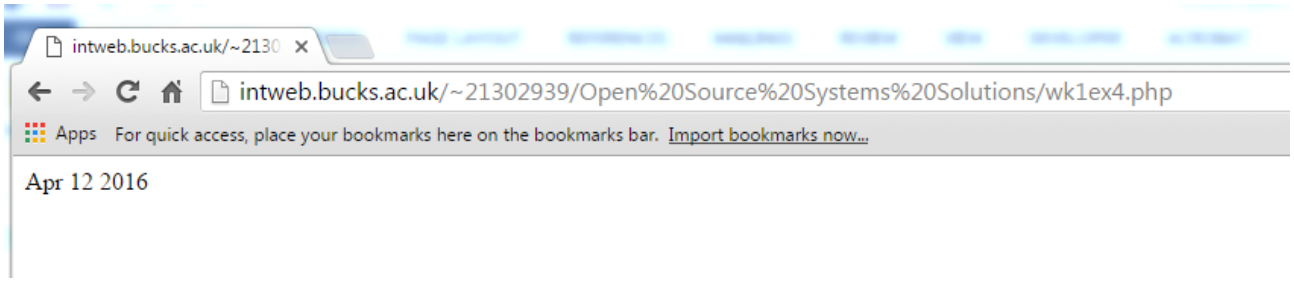
Source code

```
1  <html>      <!-------- Start HTML !------>
2  <body>      <!-------- Open the HTML body  !------>
3
4  <?php              // start a php script
5
6      echo gmdate('M d Y');              // calandar print out in month date and year format M is month D is date and Y is year
7
8      // end the php script
9
10 ?>
11
12 </body>     <!-------- Close the HTML body  !------>
13 </html>     <!-------- Close HTML  !------>
14
```

Outputs of script generated

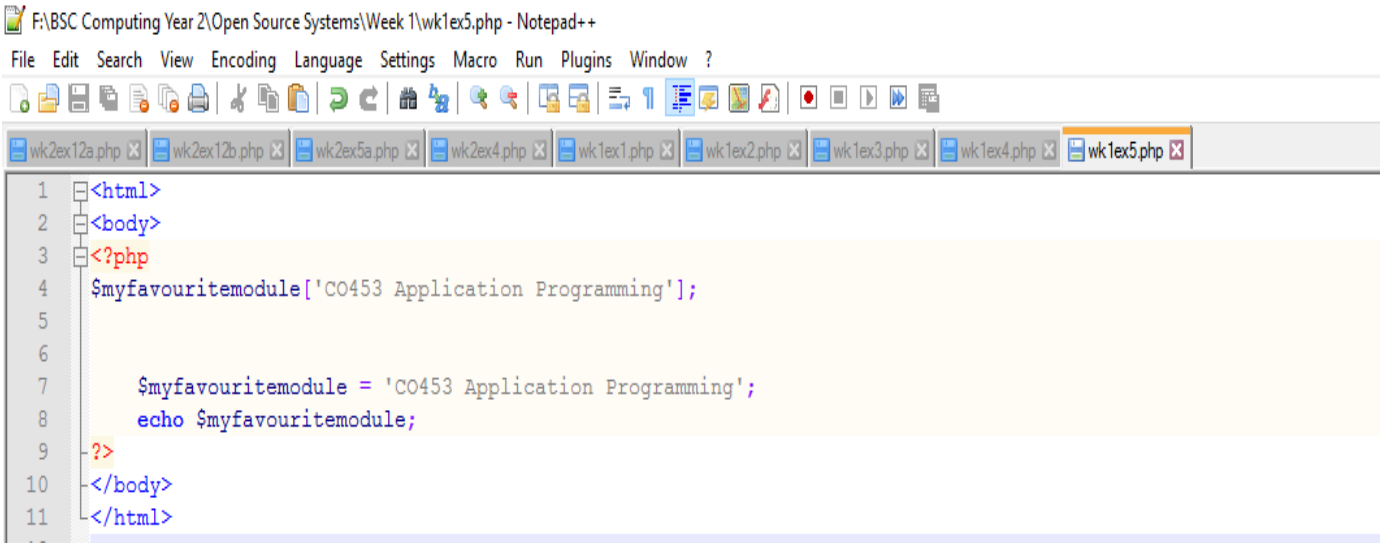


This script was all about producing a simple day calendar so each time a user would log on to a website a different day would appear for example the day I got this exercise to fully work was March 29th 2016 so that day was what displayed but if another day I launched the script e.g. Apr 12 2016 that day would appear

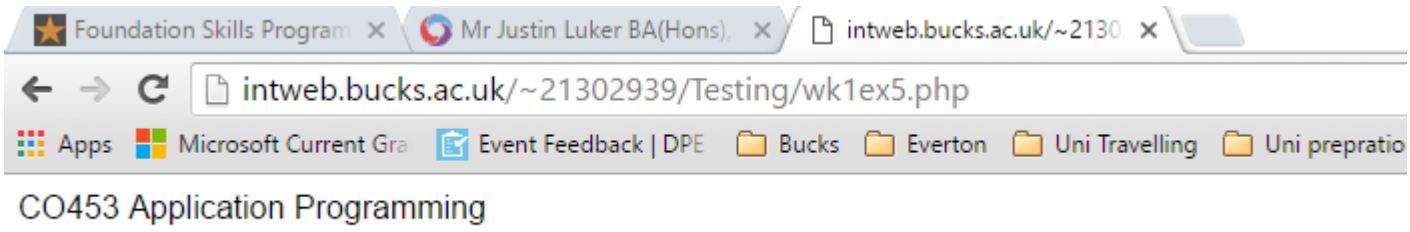


Week 1 Exercise 5 – favourite module script

Source code



Here the source code is printing out a message using a variable named my favourite module. In between the single quotes I have put the module name and code I want the variable to print out to the browser. This was **CO453 Application Programming**



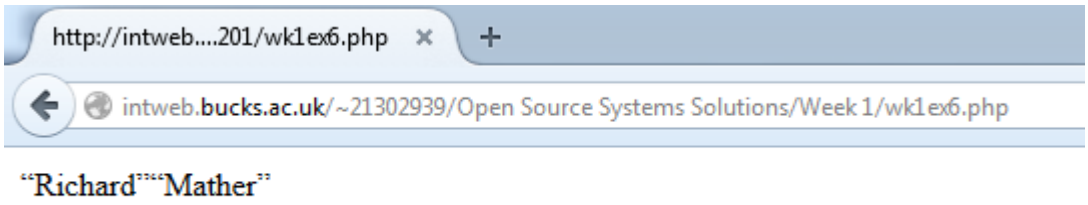
Output

Here is the output for the favourite module script I decided to put the Application programming module from the 1st year course content at Bucks as that was the module I got the highest grade in

Source Code

```
1  <html>
2  <body>
3  <?php
4      $firstname = "Richard";
5      $lastname = "Mather";
6      $name = $firstname . $lastname;
7      echo $name;
8  ?>
9  </body>
10 </html>
11
```

Script output



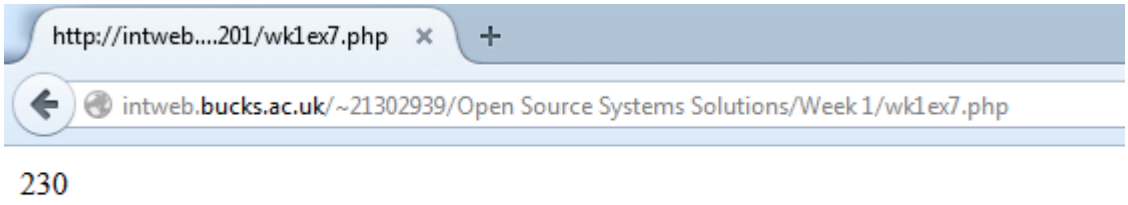
Here Richard's name prints out successfully

Week 1 Exercise 7 – Hour rates per week and overall gross hours

Source Code

```
1  <html>
2  <body>
3  <?php
4      $hourlyrate = 5.75;
5      $hoursperweek = 40;
6      $gross = $hourlyrate * $hoursperweek;
7      echo $gross;
8  ?>
9  </body>
10 </html>
11
```

Output



Here the script has worked out its maths by saying 230 pounds I should be earning with the hourly rate I have set in the script

If I changed the hourly rate and the hours per week the gross wage would change as well.

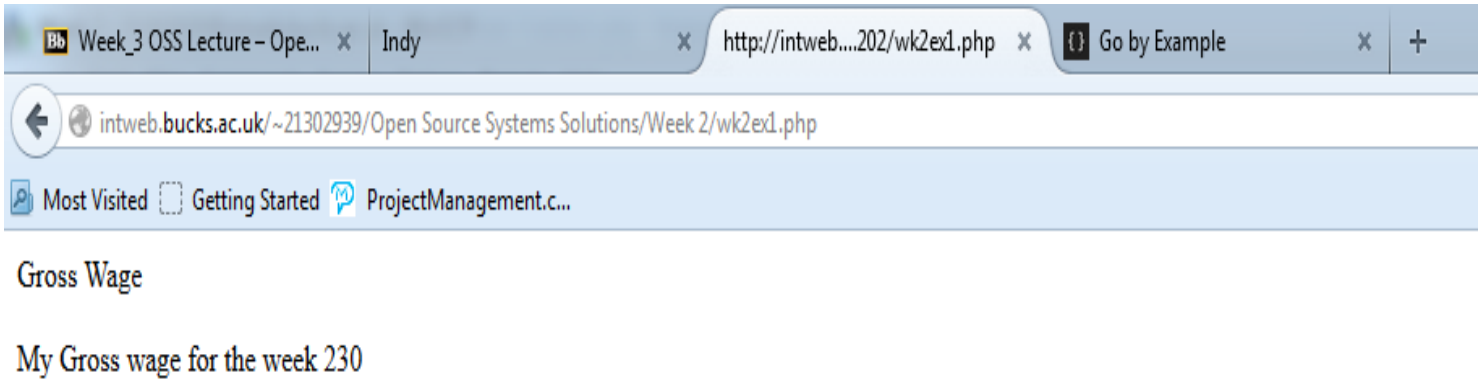
The use of variables by using the dollar symbol is making this script a lot easier as its using bits of data from different bits of the script

Week 2 Exercises

Source Code

```php
<?php           // start of php script


        $hourlyrate = 5.75;         // delcare hourlyrate variable and set it the value of 5.75
        $hoursperweek = 40;         // delcare hoursperweek variable and set it the value of 40
        $gross = $hourlyrate * $hoursperweek;       // times the hourlyrate and hoursperweek variables together to find out what the gross wage is

// end of php script

?>



    <html>                      <!------ Enter HTML Language !------>
    <head>Gross Wage</head>     <!------ This is the page title !------>
<body>                      <!------ Form HTML body !------>

    <p> My Gross wage for the week <?php echo '($gross);'?> </p>        <!------ re enter php to print out the person's gross wage for the week !-----

</body>         <!------ Close HTML body !------>
    </html>     <!------ Close HTML Language !------>

```

Script Output

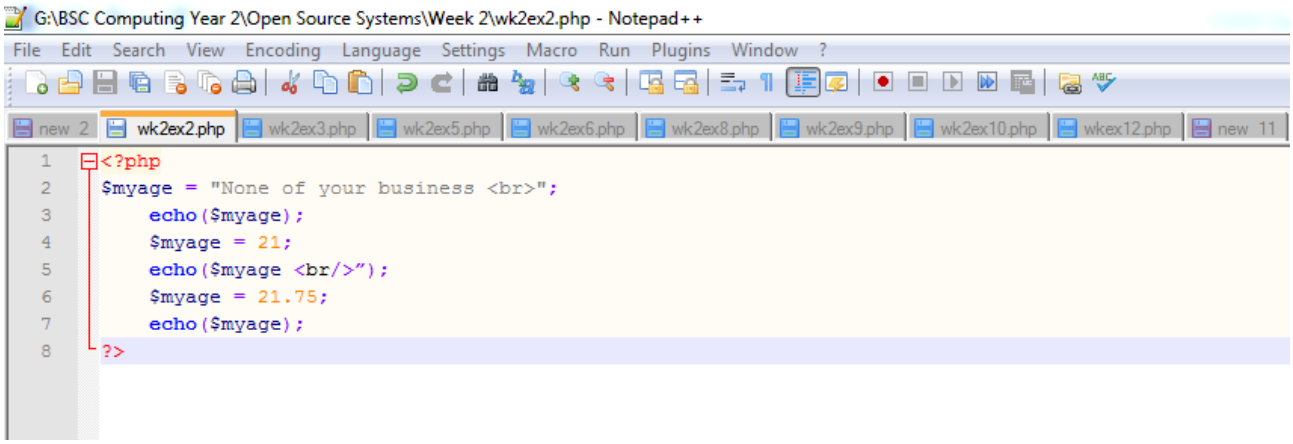


Exercise explanation narrative

Here is the output from exercise 1 from week 2 what has happened is the hourly rate and hours per week, have been multiplied together to find out how much a typical person would earn if he or she was on

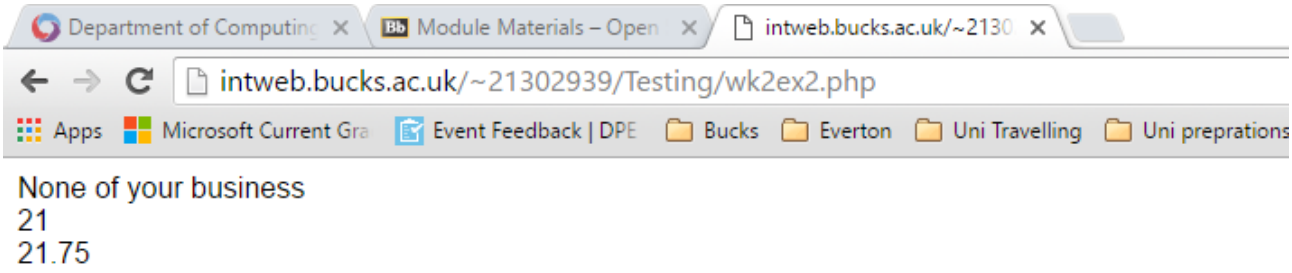
40 Hours per week and a rate of £5.75 per hour

Source code



Here I am printing ages out using a simple variable $myage which can print out more than more value if we ask the script to which I have done

Output



Here all I have done is declared 2 variables and assigned 1 value each to them these were 21 and 21.75 and using the echo command to print out the ages of the variables.

Which were 21 and 21.75

Week 2 Exercise 3 – Grade boundaries script

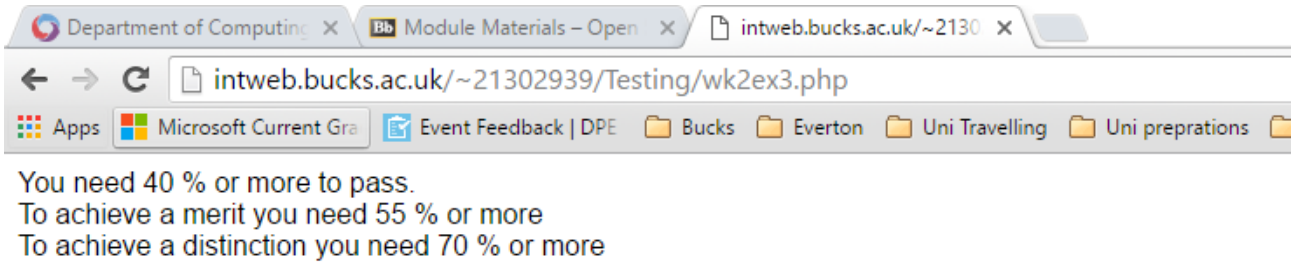
Source Code

wk2ex2.php | wk2ex3.php | wk2ex5.php | wk2ex6.php | wk2ex8.php | wk2ex9.php | wk2ex10.php | wkex12.php | wk2ex1.php

```php
<?php       // Grades script

    define("PASS_GRADE",40);
    echo "You need " . PASS_GRADE . " % or more to pass. <br/>";
    $grade = PASS_GRADE  + 15;
    echo "To achieve a merit you need $grade %  or more <br/>";
    $grade = PASS_GRADE  + 30;
    echo "To achieve a distinction you need $grade %  or more <br/>";
?>
```

Here I am generating a simple grade boundaries script for pass merits and distinctions I am using the + operator for merit and distinction as I have defined 40 as the pass grade. With using the word define it means the variables are constant and do not change. As 40% is a degree level percentage grade

Output



Here I used the php define syntax which is another you set a fixed value to a variable

Then I am printing the percentages and grade boundaries out using the standard php echo print command

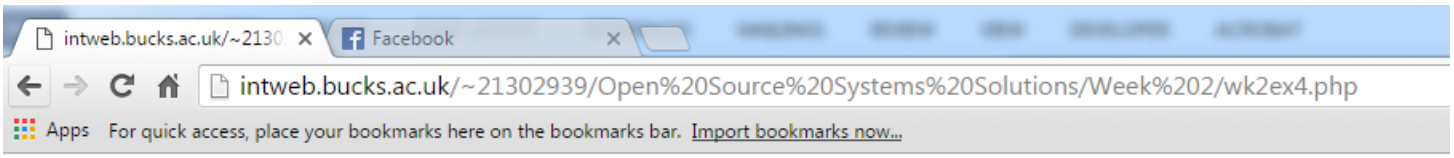
Week 2 exercise 4 – The speed camera advise script

Source code

confirmationSession.php | selectcolourSession.php | shopSession.html | wk2ex4.php

```php
<?php              // Speed camera advise script

 $points = 13;            // set the points variable to 13

 // Output appropriate message depending on points awarded.

if ( $points >= 12)
{
   echo "Public transport is your best option. <br/>";               // if you get more than 12 points output public transport message
}
elseif ($points >= 9)
{
   echo "If you get caught say your grandmother was driving. <br/>";    // if you do not get more than 9 points print out the granny mother driving message
}
else
{
   echo "There is no need to worry about the speed limit.<br/>";       // If you do not get any points just print out a message saying no need to worry about the limit
}
?>
```

Output



Public transport is your best option.

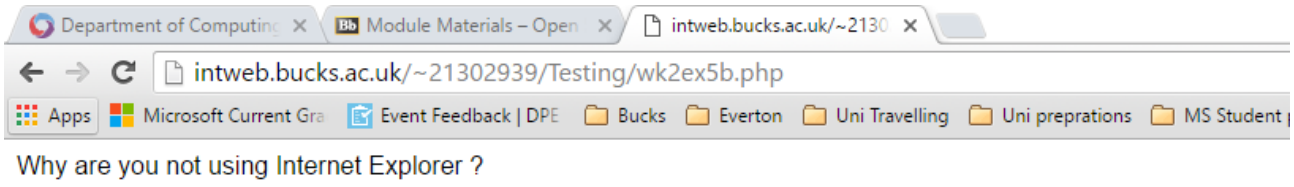
Week 2 exercise 5 – Browser alert message script

Source Code

wk2ex2.php | wk2ex3.php | wk2ex5.php | wk2ex6.php | wk2ex8.php | wk2ex9.php | wk2ex10.php | wkex12.php | wk2ex1.php | wk2ex5_2.php

```php
<?php
if (strpos($_SERVER["HTTP_USER_AGENT"], "MSIE") != false)
{
    echo "You are using Internet Explorer <br>"
}
else
{
    echo "Why are you not using Internet Explorer ?";
}
?>
```

Output



Here I am outputting the browser I am using by using a server variable which has the values assigned to it **HTTP USER AGENT MS IE [Microsoft Internet Explorer]**

If it picked up I was using Internet Explorer the script would print out a message saying **you are using Internet Explorer.** However, if I was using Google Chrome or Firefox the script would print out a message saying **why you are not using Internet Explorer**

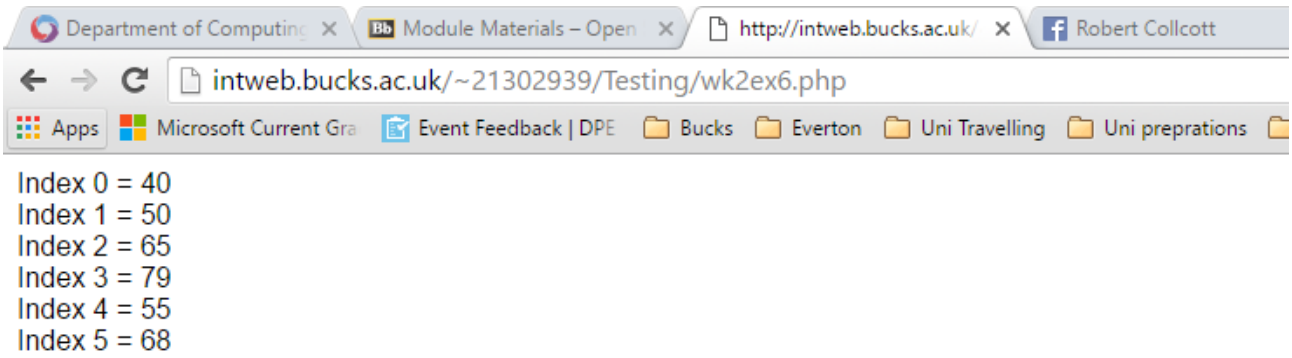
Week 2 exercise 6 – Index arrays mark script

Source Code

wk2ex2.php | wk2ex3.php | wk2ex5.php | wk2ex6.php | wk2ex8.php | wk2ex9.php | wk2ex10.php | wkex12.php | wk2ex1.php

```
1  <html>
2  <head>
3  <title> Marks Script </title>
4  </head>
5  <body>
6  <?php                    // Marks Script
7    $marks[0] = 65;
8    $marks[1] = 55;
9    $marks[2] = 76;
10   $marks[3] = 82;
11   $marks[4] = 48;
12   $marks[5] = 78;
13
14   echo Index 0 = $marks[0] </br>;
15   echo Index 1 = $marks[1] </br>;
16   echo Index 2 = $marks[2] </br>;
17   echo Index 3 = $marks[3] </br>;
18   echo Index 4 = $marks[4] </br>;
19   echo Index 5 = $marks[5] </br>;
20
21 ?>
22 </body>
23 </html>
24
25
```

marks is the variable name I have also setup an array which must start at 0 always and index is the name of the array and $marks is the variable name as it makes sense to call it that as we are outputting marks for modules taken in a year of study on a course at Bucks.



Here all I am doing is storing values to variables and printing them out on screen using the echo command

$marks is the variable name I have also setup an array which must start at 0 always and index is the name of the array and $marks is the variable name as it makes sense to call it that as we are outputting marks for modules taken in a year of study on a course at Bucks.

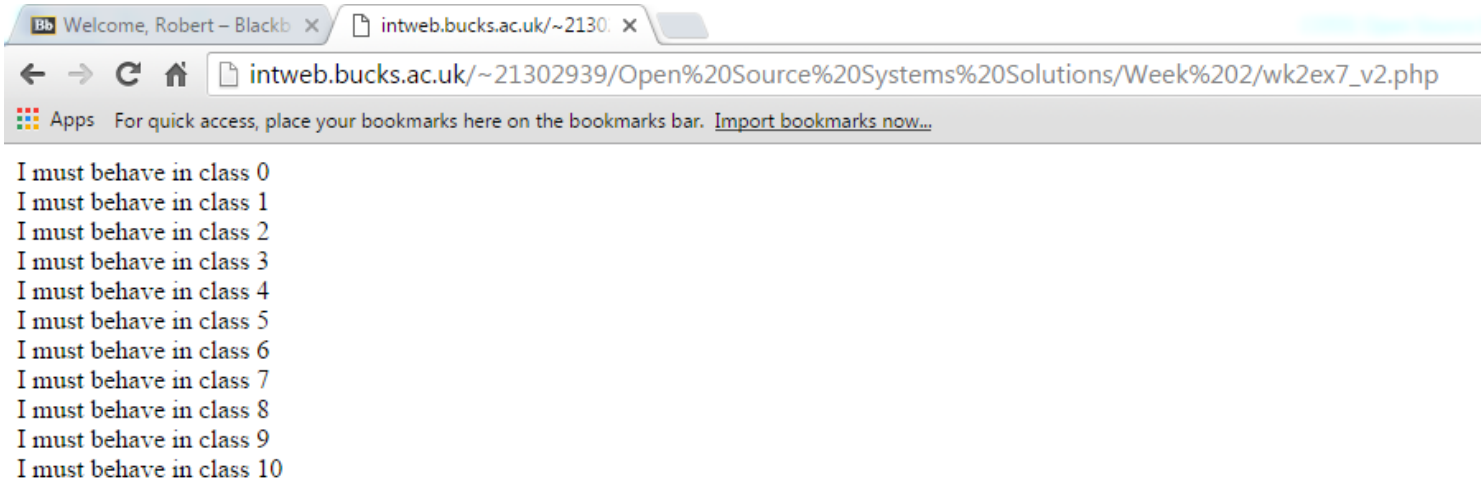
Week 2 exercise 7 – the must behave script with a for loop inclusion

Source Code

```
<html>
<head> Behaviour Script </head>
<title> Behaviour Script </title>
<body>

<?php               // start of php script

  for($count = 0;$count <= 10;$count++)            // repeat the message " I must behave in class 10 times" Use a for loop to increment each time the message appears
  {
    echo "I must behave in class  $count <br/>";
  }

  // end of php script

?>
</body>
</html>
```

Here I am using a for loop to repeat a message 10 times and auto increment each one for each class I have in a week so 2 classes a day because the loop only goes up to 10

Output of script



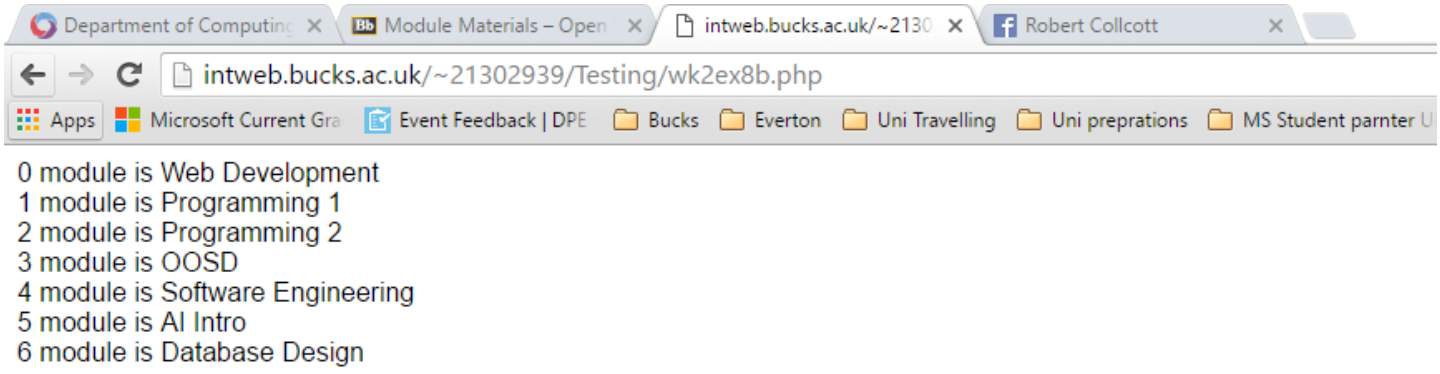
Here is the output of the script having used the for loop the same message appears 10 times as I have 10 classes to prove myself that I do not need to keep reminding myself to behave in class all week

Week 2 exercise 8 – top modules array script

Source Code

```php
<?php
        // start of script

    // Begin a php array

  $topModules[0] = "Web Development";          // top module 0 is Web Development
  $topModules[1] = "Programming 1";            // top module 1 is Programming 1
  $topModules[2] = "Programming 2";            // top module 2 is Programming 2
  $topModules[3] = "OOSD";                     // top module 3 is OOSD
  $topModules[4] = "Software Engineering";     // top module 4 is Software Engineering
  $topModules[5] = "AI Intro";                 // top module 5 is AI Intro
  $topModules[6] = "Database Design";          // top module 6 is Database Design

  //assign the number of array elements to a variable
  $size = count($topModules);

  for($count = 0;$count < 7;$count++)       // keep counting the top modules until all 7 have been read
  {
    echo "$count module is $topModules[$count] <br/>";         // print out the top modules using the $count and $topModules variables
  }
?>
```

Output of script created



Here I have printed out the modules again in an array but this time I have given it a name of topmodules

The array starts at 0 and ends at 7 as there is a for loop that has been created that if the count is this than 7 output another new top module and then increment each one by using the ++ syntax

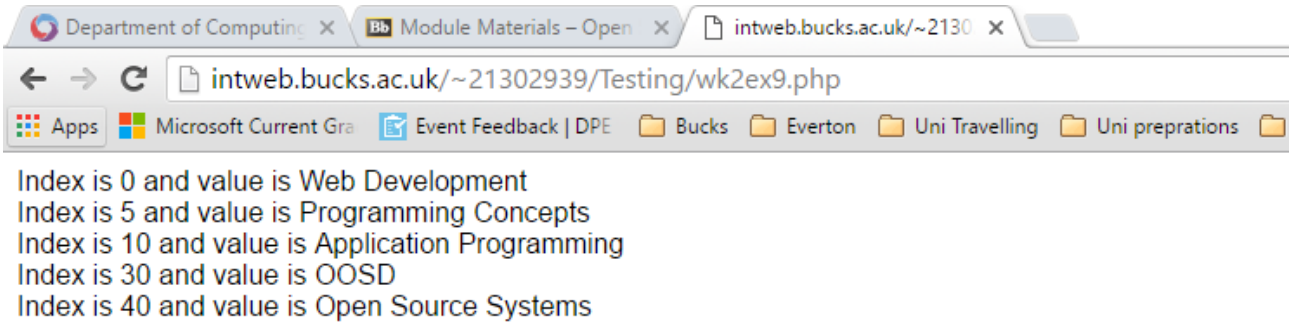
I also used the echo command to print out using variables $count and $topmodules which is what the square bracket numbers are.

Week 2 exercise 9 – array index of 5 times tables top modules script

Source Code

Here I am using an array and while loop to output the name values of certain modules that I like

Output



Source Code

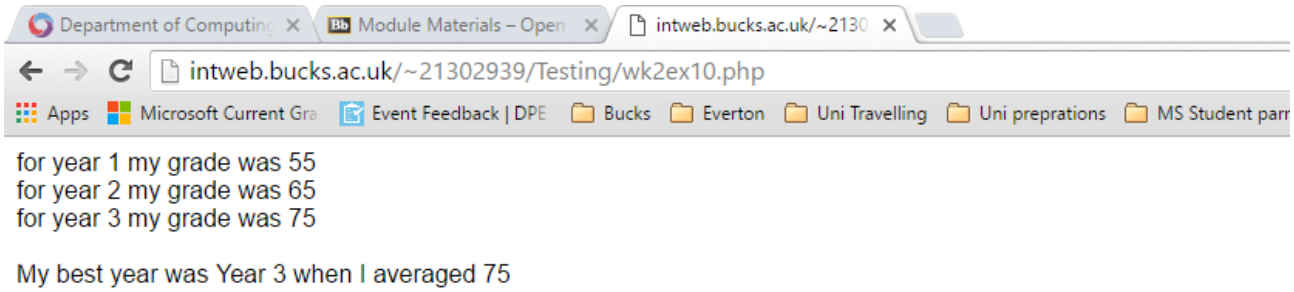
confirmationSession.php | selectcolourSession.php | shopSession.html | wk2ex4.php | inputAccount.html | confirmAccount.php | confirmAccount_v2.php | confirmDeposit.php | confirmDeposit_v2.php | wk2ex7.php | wk2ex10.php

```php
<?php   // start of script

  $mymarks["year 1"] = 55;      // set year 1 to be a value of 55
  $mymarks["year 2"] = 65;      // set year 2 to be a value of 65
  $mymarks["year 3"] = 75;      // set year 3 to be a value of 75

  while(list($index,$value) = each($mymarks))
  {
    echo "for  $index  my grade was  $value <br/>";            // taking the index variable print out the message stating the index and value of the best year
  }
  echo "<br/> My best year was Year 3 when I averaged ". $mymarks["year 3"];           // print out a message saying my best year was year 3 using the mymarks variable


  // end of script

?>
```

Here is the source code for the marks year by year averages and best year script. The use of variables makes it a whole lot easier to set values and print out messages e.g. instead of typing in the best year e.g. 3 we can create a variable to hold the information for us and assign it the year

Output from script

Here I have outputted all my averages for the years of my degree years and outputted a message saying what my best year was. In this case it was year 3 because 75 was the highest this would change if I put in different numbers in for different years. So a message could say **my best year was year 2 when I averaged 87**



Source code

wk3ex1.html | Translator.php | wk3ex3.html | wk3ex3action.php | wk3ex4.html | wk3ex4action.php | wk2ex11.php

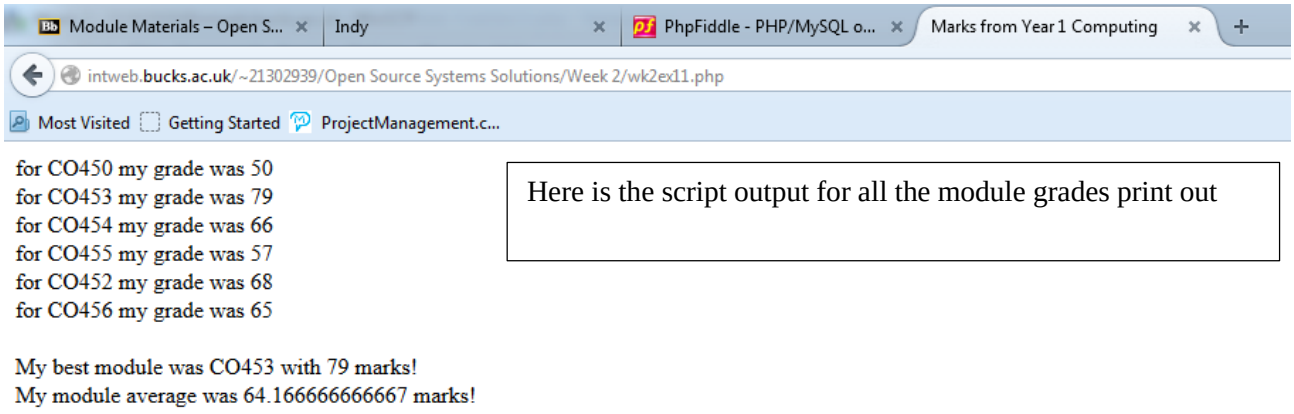
```
<html>
<head>  <!----- This is the head of the html part of the page ----->
</head>
<title> Marks from Year 1 Computing </title>   <!----- This is the page title ----->

<?php                              // Start of Marks script
   $mymarks["CO450"] = 50;         // CO450 mark was 50
   $mymarks["CO453"] = 79;         // CO453 mark was 79
   $mymarks["CO454"] = 66;         // CO453 mark was 79
   $mymarks["CO455"] = 57;         // CO453 mark was 79
   $mymarks["CO452"] = 68;         // CO453 mark was 79
   $mymarks["CO456"] = 65;         // CO453 mark was 79

   $total = 0;

   while(list($index,$value) = each($mymarks))                  // Start a loop
   {
     echo "for  $index  my grade was  $value <br/>";
     $total = $total + $mymarks[$index];
   }
$average = $total /  6;                 // Average and total of modules is equal to 6 because they are 6 modules being taken

   echo "<br/> My best module was CO453 with ". $mymarks["CO453"] ." marks!";               // print out the best module was CO453
   echo "<br/> My module average was ". $average ." marks!";                               // print out an average score for all the modules taken dived by 6

?>

</html>
```

Here I am making a php script to print out grades for modules to keep it realistic what I did was tell the script what were my first year grades where I actually achieved

To make the script a lot easier to use I created a while loop by using variables index and value to say what the best module was

I also used a variable named average to output the average over 6 modules

Script output



Here is the script output for all the module grades print out

Week 2 exercise 12 – top modules in array table scripts

Introduction

This exercise was so complex it had to be broken into 2 parts

Source Code Exercise 12 A

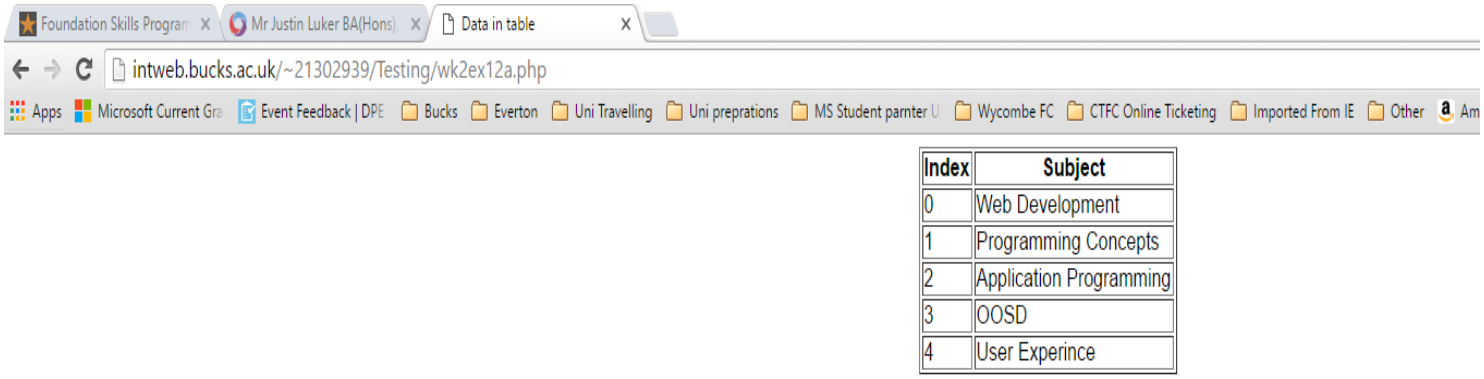
wk2ex12a.php

```php
<?php
            // start of 1st php script

// Create an array named topmodules

  $topmodules[0] = "Web Development";
  $topmodules[1] = "Programming Concepts";
  $topmodules[2] = "Application Programming";
  $topmodules[3] = "OOSD";
  $topmodules[4] = "User Experince";

  // end first php script

?>

<head>      <!------ Enter HTML language------>
<title>Data in table</title>   <!------ This is the page title !------>
</head>
<body>      <!------ Begin the Body of the webpage to display the table !------>

<table border=1 align="center">            <!------ Table border is on the lowest thickness------>

<tr><th>Index</th><th>Subject</th></tr>     <!------ Create 2 table rows and headings------>

<?php           // start of 2nd php script

  for($count = 0;$count < 5;$count++)                          // begin a php for loop and increment by one each time
  {
    echo "<tr><td>$count</td><td>$topmodules[$count]</td></tr>";    // print out the top modules in table format
  }

  // end second php script

?>

</table>            <!------ End of the table on the web page !------>
</body>             <!------ End of the body on the web page  !------>
</html>             <!------ Stop the HTML !------>
```

Explanation of source code for exercise 12A

Here is the source code for 12 A this is just creating the table of modules by using a for loop and arrays by using the variable named top modules

Output of Exercise 12 A



Index	Subject
0	Web Development
1	Programming Concepts
2	Application Programming
3	OOSD
4	User Experince

Here is the output from the source code for exercise 12 A this is just creating the table of modules by using a for loop and arrays by using the variable named top modules in the source code

Source Code Exercise 12 B

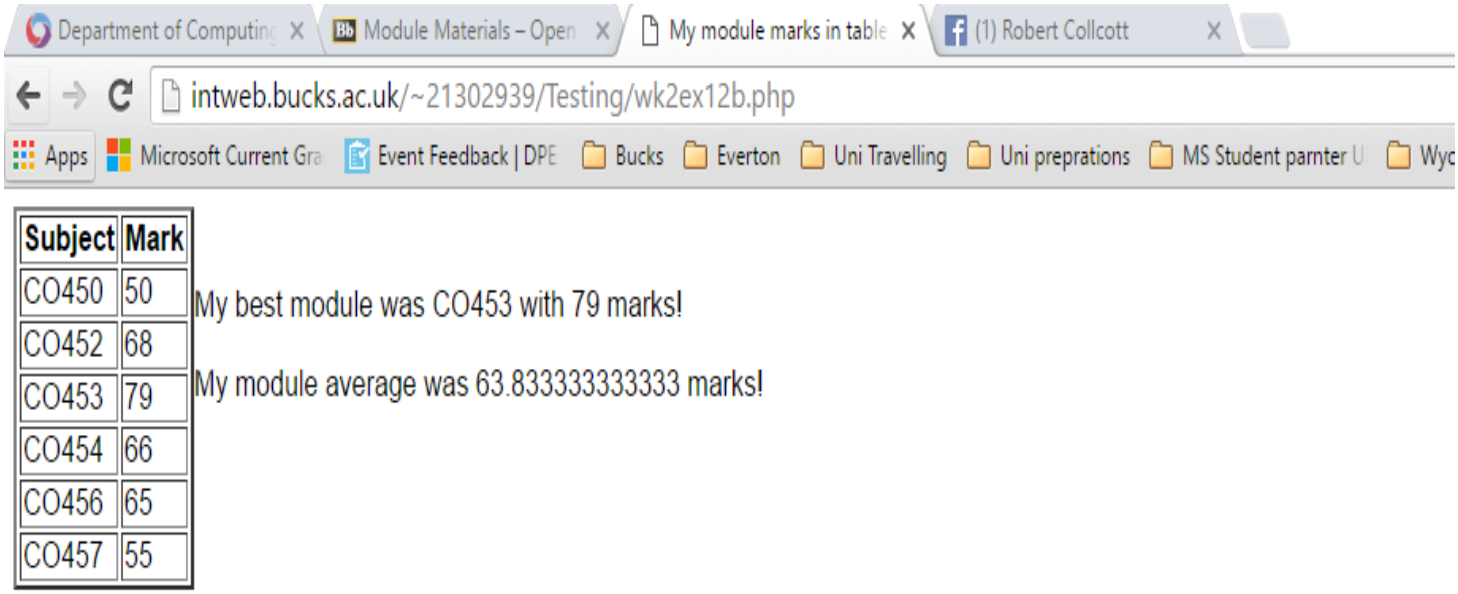
wk2ex12a.php wk2ex12b.php

```php
<?php          // start of php script 1

// Delcare course marks variable named mymarks

  $mymarks["CO450"] = 50;              // variables are named with $mymarks and in quotes and in orange is what is going to be outputted on the screen
  $mymarks["CO452"] = 68;
  $mymarks["CO453"] = 79;
  $mymarks["CO454"] = 66;
  $mymarks["CO456"] = 65;
  $mymarks["CO457"] = 55;

  $total = 0;

  // end of php script 1
?>


<head><title>My module marks in a table format</title></head>      <!------ This is the page title !------>
<body>
<table border=2 align="left">                 <!------ give the table on the webpage a border thickness of 2 !------>
<tr><th>Subject</th><th>Mark</th></tr>         <!------ Have 2 table rows named subject and mark !------>

<?php          // start of php script 2

  while(list($index,$value) = each($mymarks))          // start a loop
  {
    echo "<tr><td>$index</td><td>$value</td></tr>";     // print out the total of marks and average of six units as they are 6 marks
    $total = $total + $mymarks[$index];
  }

  // end of php script 2

?>

</table>
</body>
</html>

<?php       // start of php script 3

$average = $total /  6;

  echo "<br/><br/> My best module was CO453 with ". $mymarks["CO453"] ." marks!";   // output a message with the average score of modules taken
  echo "<br/><br/> My module average was ". $average ." marks!";                    // output a message with the average score of modules taken

  // end of php script 3

?>
```

Here my module codes and marks are displayed in a table source code the only difference this time is they are two columns in the table these were

- Subject
- Mark

I used the subject column to put the module code for example I used my CO450 module as the Computer Architectures module and assigned the mark of 50 because that is what I got actually for the module when I took it in the first year at Bucks New University



Output of Exercise 12 B

Here my module codes and marks are displayed in a table. With a message output for what was the best module with how many marks and an average mark over 6 modules message

As the php maths engine has worked with a for loop to divide it by 6 to work out the average

Week 3 Exercises

Week 3 Exercise 1 – Submitting a name and job to a gross wage for the week script

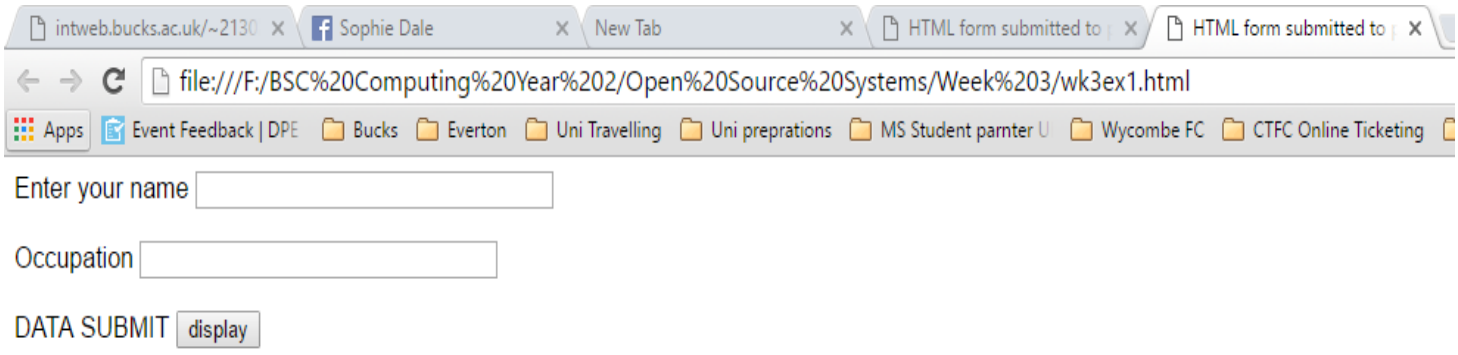
HTML Source code

Here I will ask a lecturer to put her's or his name in and choose the occupation of lecturer beach bum or traffic warden and then if the display button is pressed. This will trigger a php script to output a message of something like

Wayne Palmer is a Lecturer

```
<html>
<head>
<title> HTML form submitted to php.file </title>              <!------- This is the page title ----->
</head>
<body>                                                        <!------- Open the body of the web page to display the form ----->


    <form action="wk3ex1.php" method="post">                <!------- this is the select form it sends data to the file wk3ex1action.php ----->

    Enter your name

    <input type="text" name="txtname" size="30"/><br/><br/>     <!------- Get user input for name ----->

    Occupation

    <input type="text" name="txtname" size="30"/><br/><br/>     <!------- Get user input for occupation ----->

    DATA SUBMIT

    <input type="submit" value="display">                       <!------- this will submit the data to the php script ----->
    </form>
    </body>
    </html>
```

HTML file output



Here I will gather the user's input for a name and occupation which will then be submitted to a php script which contains the hourly rate and hours per week set at £5.75 for the rate and 40 hours

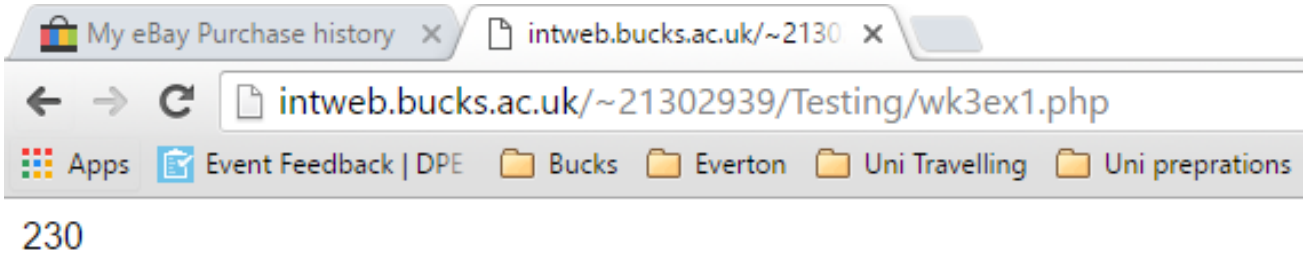
Php script source code

```php
<?php          // start of php script

    $hourlyrate = '5.75';          // hourlyrate is 5.75

    $hoursperweek = '40';          // hours working per week is 40

    $gross = $hourlyrate * $hoursperweek;       // to work out the gross value overall we * [times] the two together

    echo $gross;               // print out a message stating the gross earnings


    // end of php script

?>
```

Here is the php script which is linked to the HTML file what works out the gross wage based on the data submitted in the html file since this made up organisation pays the same amount for all employees there is only one hourly rate and hours per week

There is only one gross print out which is the hourly rate multiplied by hours per week which gives the gross wage for the week which is £230.00

Php script output



Here is the gross wage outputted on a browser web page

Week 3 Exercise 2 – the big translator script

In this exercise I built a language translator that could translate any name into 5 different languages but one at a time. So to do this I used the HTML option value syntax so users could select the following languages

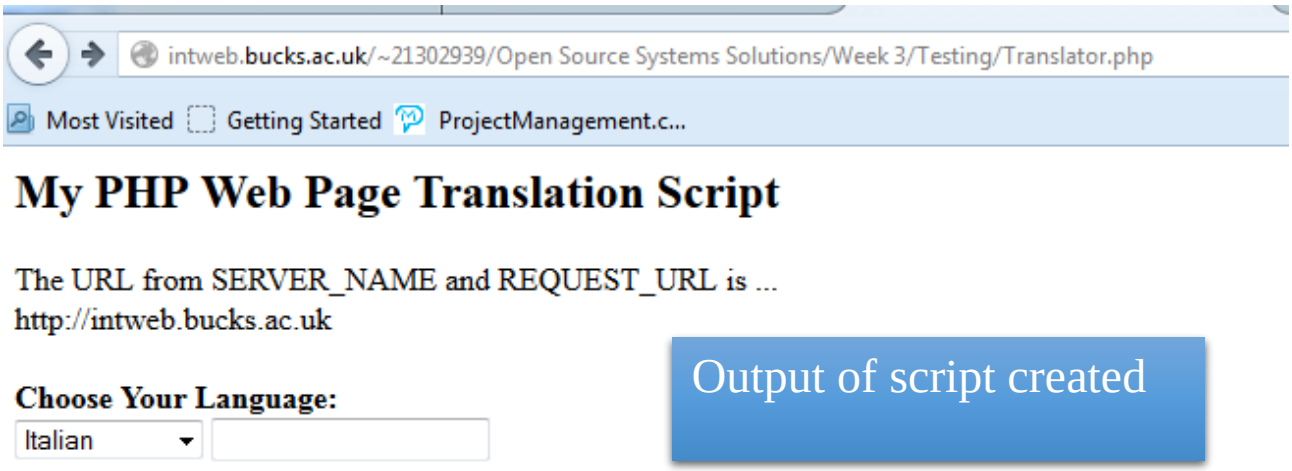
- German
- Spanish
- French
- Italian
- Portuguese

Source code

wk3ex1.html | wk1ex5.php | wk1ex1.php | wk1ex2.php | wk1ex3.php | wk1ex4.php | wk1ex6.php | wk1ex7.php | wk3ex1.php | Translator.php | new 1

```
<?php
    $URL = "http://".$_SERVER['SERVER_NAME'].$_SERVER['REQUEST_URL'];                // delcare a URL variable so it picks whatever the web server is
?>
<html>          <!------ Start of html part 1 of script ------>

<body>
    <h2>My PHP Web Page Translation Script</h2>        <!------ HTML part of script page title ------>

        <?php            // Start of php part of script

            echo("The URL from SERVER_NAME and REQUEST_URL is ... </br>".$URL."</br></br>")            // print out the current URL at the time wherever the use
            ?>

</body>
</html>


<html>      <!------ Start of html part 2 of script ------>
<body>

    <strong> Choose Your Language: </strong>
    <form action="https://translate.google.co.uk/?hl=en&tab=wT">
      <select name="langpair">                          <!------ select list to choose options ------>
            <option value="en|de">German</option>       <!------ option 1 is German ------>
            <option value="en|es">Spanish</option>      <!------ option 2 is Spanish  ------>
            <option value="en|fr">French</option>       <!------ option 3 is French ------>
            <option value="en|it">Italian</option>      <!------ option 4 is Italian ------>
            <option value="en|pt">Portuguese</option>   <!------ option 1 is Portuguese ------>
      </select>
</body>
</html>

<html>  <!------ Start of html part 3 of script ------>
<body>
        <input type=<"submit"> <value="Go!"/>


    </form>

</body>
</html>
```

Here is the result from the source code I created



The web page did not fully work because of google translate being transformed the last year a bit it cannot fully translate because the service does not work anymore

Week 3 Exercise 3 – input of age and gender in a simple form to determine drinking is permitted or not permitted

HTML file source code

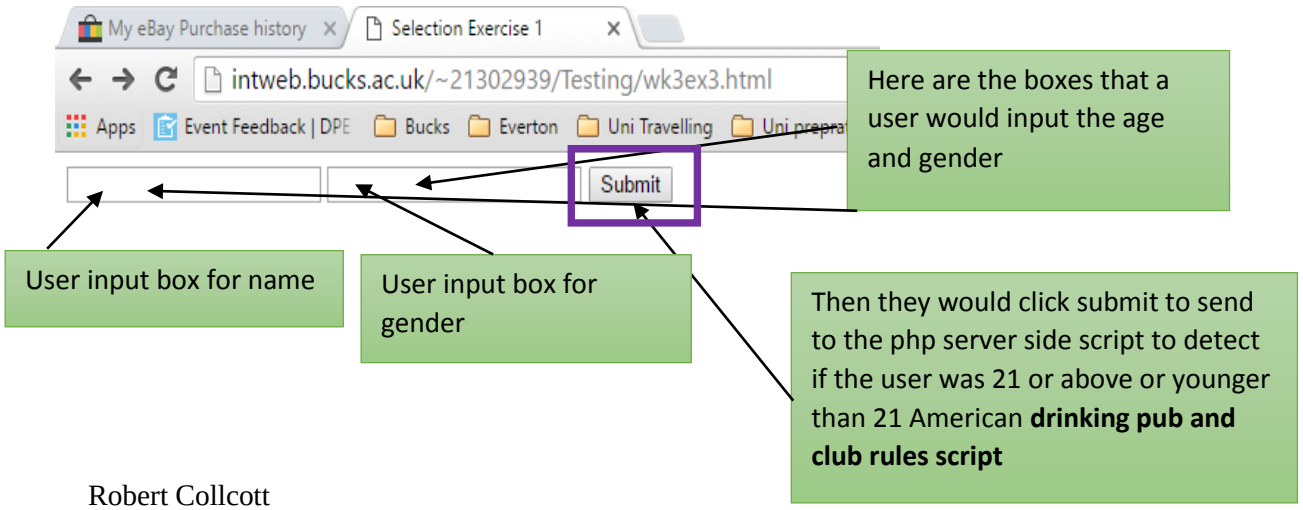
```
1  <html>
2  <head>
3  <title> Selection Exercise 1 </title>   <!----- This is the page title ----->
4  </head>
5  <body>
6
7      <form action="wk3ex3action.php" method="post">            <!----- Post the data to the wk3 exercise 3 action php script----->
8
9      <input type="text" name="txtage"/>                        <!----- Age is one feild to gather user input ----->
10
11     <input type="text" name="txtgender"/>                     <!----- Gender is the other feild to be filled in ----->
12
13
14     <input type="submit">                                     <!----- The submit button submits the data to the server php script ----->
15
16 </body>
17 </form>
18 </html>
```

This is the source code for the first exercise in week 3 this is getting the input of someone's

- Age
- Gender

Then this will submit the data to a server side php file to store into a database

HTML file output



Php script output and source code

Week 3 Exercise 4 – selecting appropriate course certification level page and script

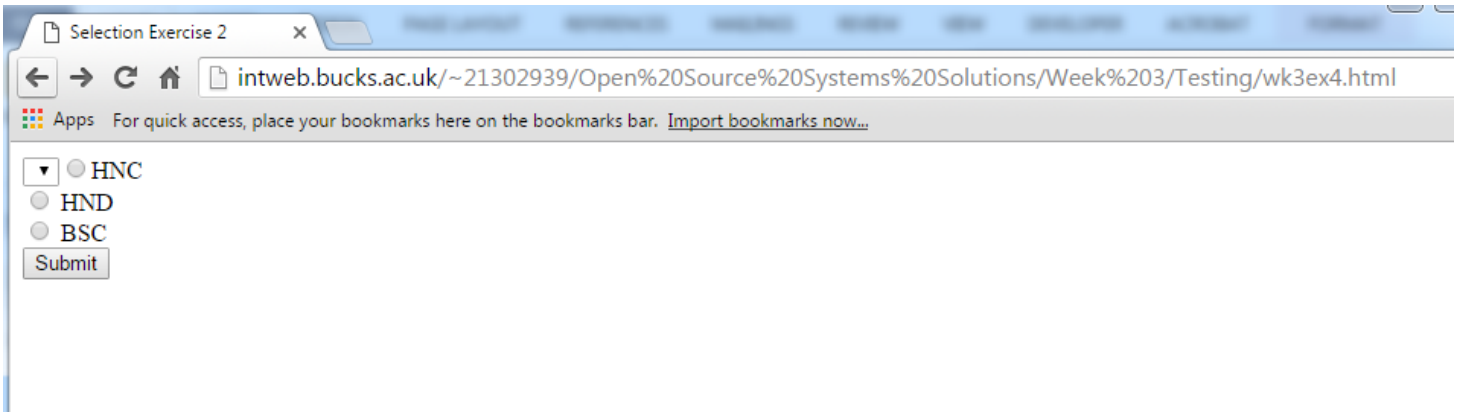
Problem

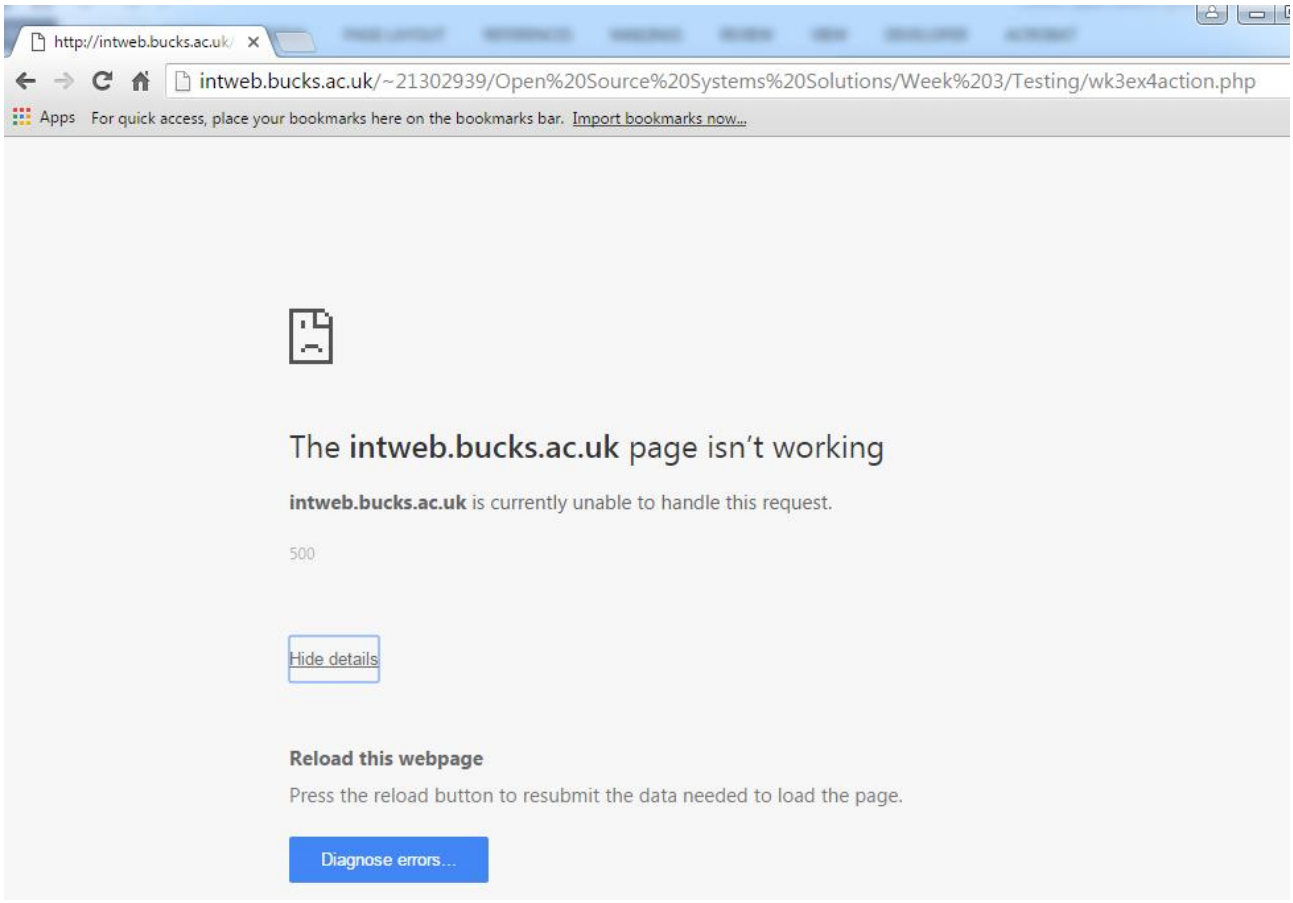
Selecting course levels HNC HND or BSC

HTML file source code

```
<html>
<head>
<title> Selection Exercise 2 </title>   <!----- This is the page title ----->
</head>
<body>

    <form action="wk3ex4action.php" method="post">              <!----- Post the data to the wk3 exercise 4 action script----->
    <select name="course">                                      <!----- give the select name of the form the name of course ----->
    <br>
    <br>
    </br>

   <input type="radio" name="gender" value="HNC">HNC<br>        <!----- HNC course is the first option ----->
   <input type="radio" name="gender" value="HND"> HND<br>       <!----- HNC course is the second option ----->
   <input type="radio" name="gender" value="BSC"> BSC <br       <!----- HNC course is the third option ----->

   <input type="submit">                                        <!----- This submits the data to the php script ----->

   </form>


    </body>
    </form
    </html>
```

HTML file output




http://intweb.bucks.ac.uk/
intweb.bucks.ac.uk/~21302939/Open%20Source%20Systems%20Solutions/Week%203/Testing/wk3ex4action.php
Apps
For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...
The intweb.bucks.ac.uk page isn't working
intweb.bucks.ac.uk is currently unable to handle this request.
500
Hide details
Reload this webpage
Press the reload button to resubmit the data needed to load the page.
Diagnose errors...

Source code files

Here I am showing my mini guestbook scripts

inputAccount.html | confirmAccount.php | confirmDeposit.php | wk2ex7.php | wk2ex10.php | inputAccount_v2.html

```
<html>
<head>
<body>

<form action="confirmAccount.php" method="post">              <!---------- Grab the account name stated in the form ----->
<input type="text" name="txtaccount" value="Account Name"/>    <!---------- Write the name of the account in the account name box ----->
<input type="number" name="txtamount" value="Account Deposit"/> <!---------- Write the value deposit of the account in the account deposit box ----->
<input type="submit"/>                                         <!---------- Submit the name of the account in the form named confirm account to the confirmAccount.php scri

</form>
</body>
</head>
</html>
```

Here is my input for the guestbook the user will input the name of the account for instance **Bucks New University** and use a number scroller to input the deposit e.g. 1 100 267

ount.html | confirmAccount.php | confirmDeposit.php | wk2ex7.php | wk2ex10.php | inputAccount_v2.html

```
<html>
<head>
<body>
<?php echo "Your account is $_POST[txtaccount]"; ?>              <!---------- Grab the amount of deposited in the form ----->

  <form action="confirmDeposit.php" method="post">              <!---------- Send [POST] the deposit amount to the confirm deposit form-----
    <input type="text" name="txtdeposit"
      value="Deposit Amount"/>
    <input type="submit" />                                     <!---------- Submit the data in the form by pressing a button named submit -
  </form>
</body>
</head>
</html>
```

Here is the php source code for the confirmation of an account which links to the confirm Deposit form. This is what a user will input to confirm a deposit payed on the account

inputAccount.html | confirmAccount.php | confirmDeposit.php | wk2ex7.php | wk2ex10.php | inputAccount_v2.html

```php
<?php           // start of confirming deposit script

 echo "Your account name is $_POST[txtaccount]</br>";              // grab the account name posted
 echo "Your wish to deposit £ $_POST[txtdeposit]</br>";            // grab the deposit amount posted

 // end of confirming deposit script

?>
```

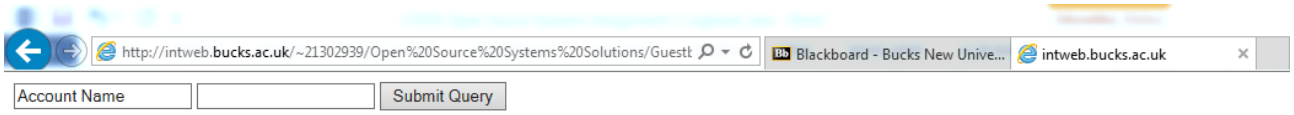
Here all the confirm deposit script all I am doing is printing out the account name and deposit amount

For example **Bucks New University has payed a deposit of 250 pounds towards a subscription for a major piece of new software to have on the campus**

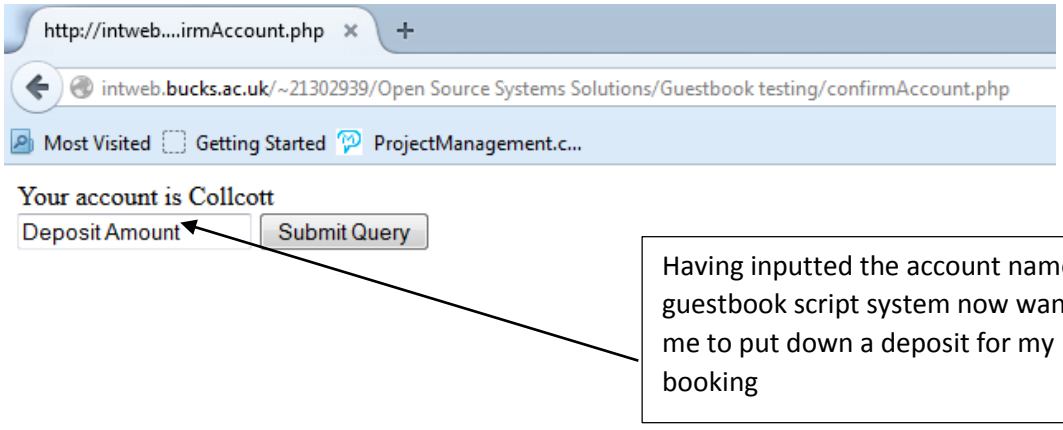
HTML and Php outputs to web browser

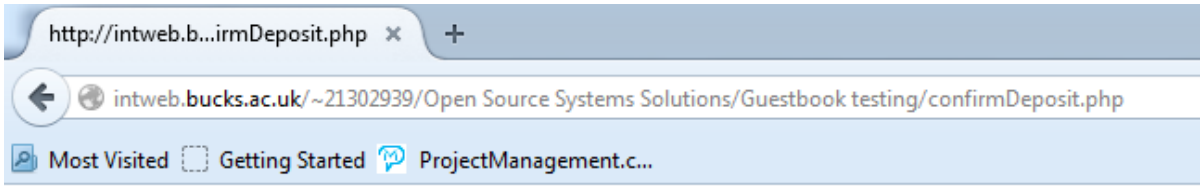
Here are all my php outputs from the mini deposit script program I created there was just one problem I had which was when going from confirm account and confirm deposit the account name did not display on the confirm deposit

Due to time constraints I could not solve the issue



Here I am getting user input from a user using the inputaccount.html file by getting details of the account name and amount then confirming the account fully





Your account name is
Your wish to deposit £ 450

Having inputted the deposit this script page for the guest book is just a confirmation page for the deposit by telling a user for sure how much has been inputted for the deposit.

In this case I typed in 450 pounds so **£450 pounds was outputted to a web browser confirm deposit page**

There was supposed to be a little text file to store all the deposit amounts

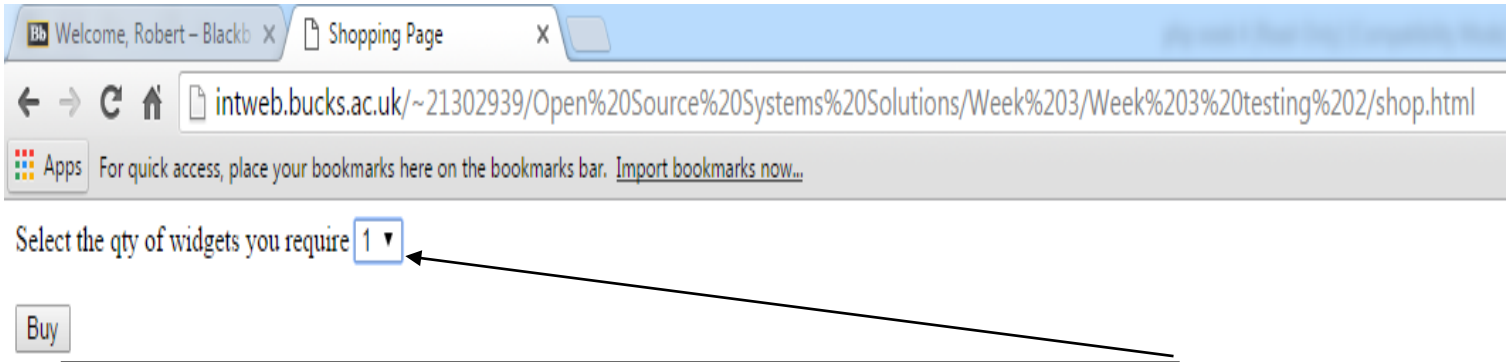
Due to time pressures and finding the right code it could not be possible to make the text pad file and save the deposits posted from the form on the web browser

Week 4 Exercises

CO551 OSS Mini Project Simple Shopping Cart Solution

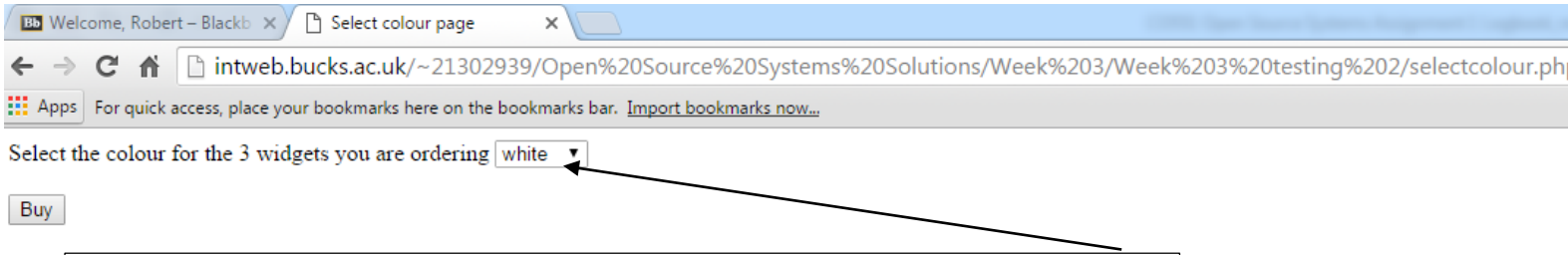
Week 4 Exercise 1 - Part 1 of the script selecting the qty of widgets required and selecting colour without using any variables

Shop.html page



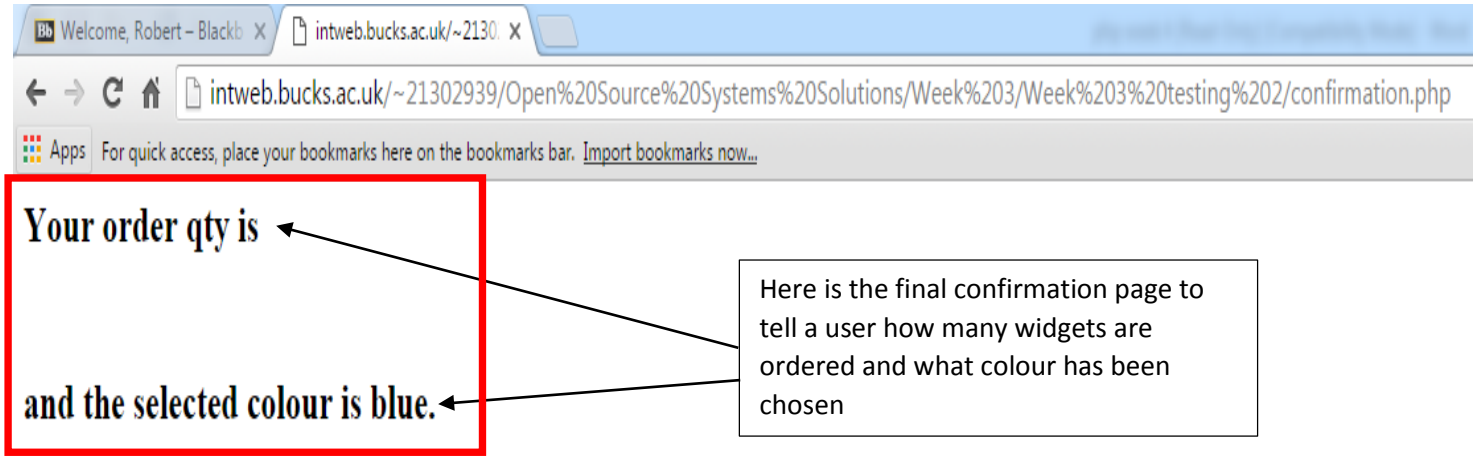
Here I am using an HTML page to get user input for the qty of the widgets a customer wants to buy then when the buy button is pressed. This will go to the select colour php page

Select Colour.php page



Here the qty has been carried over to the select colour php script page and now I am getting a user to select the colour of widget they would like **e.g. white**

Confirmation. Php page



```
<html>
<head>
<title>Shopping Page</title>
</head>
<body>
  <form  action="selectcolour.php" method="post">
   Select the qty of widgets you require
   <select name="selqty">
        <option>1</option>
        <option>2</option>
        <option>3</option>
        <option>4</option>
        <option>5</option>
   </select>

     <select name="select price">
        <option>15.75</option>
        <option>16.75</option>
        <option>17.75</option>
        <option>18.75</option>
   </select>

   <br/><br/>
   <input type="submit" value="Buy"/>
  </form>
 </body>
</html>
```

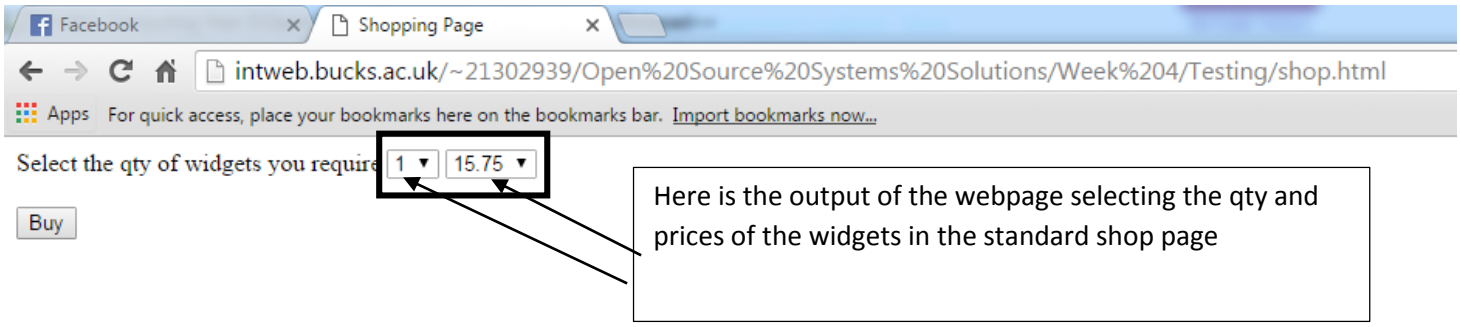
Sty's of widgets selection

Here I Am gathering user input for how many widgets a customer wants and selecting the price of 4 options

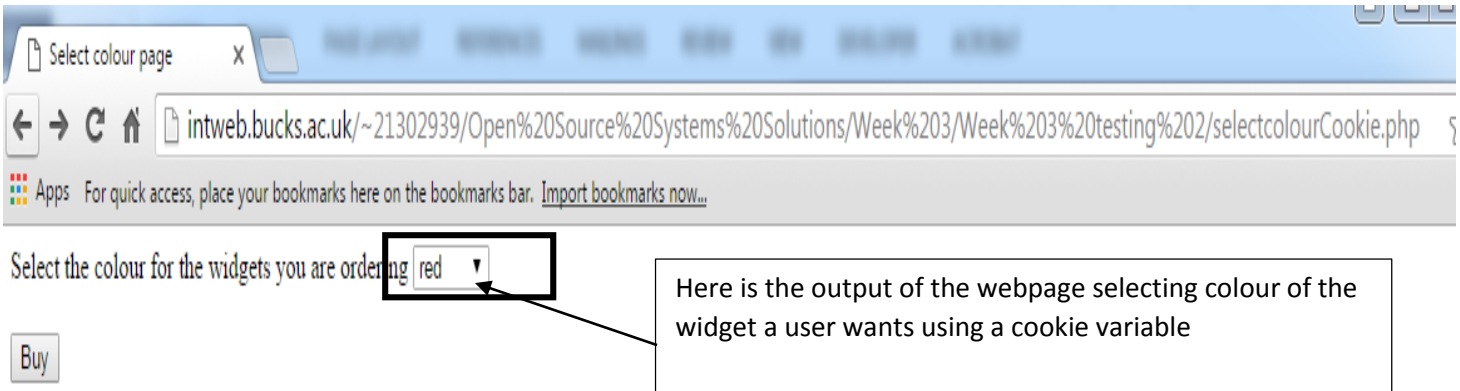
Price selection

shop.html source code

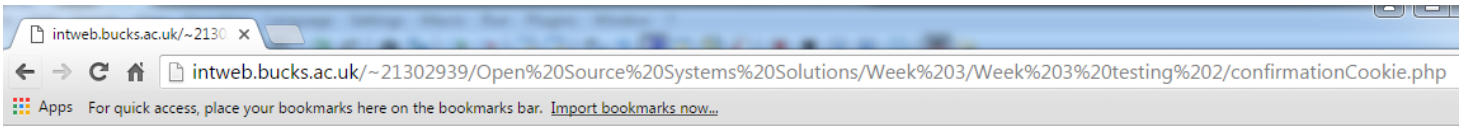
HTML file output



Here is the output of the webpage selecting the qty and prices of the widgets in the standard shop page



Here is the output of the webpage selecting colour of the widget a user wants using a cookie variable

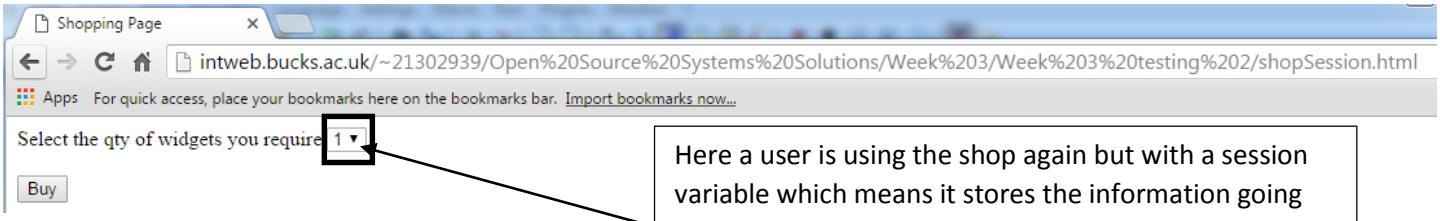


Here is the output of the webpage telling the user the confirmation cookie of the colour of the widgets he or she has ordered in this example it was red

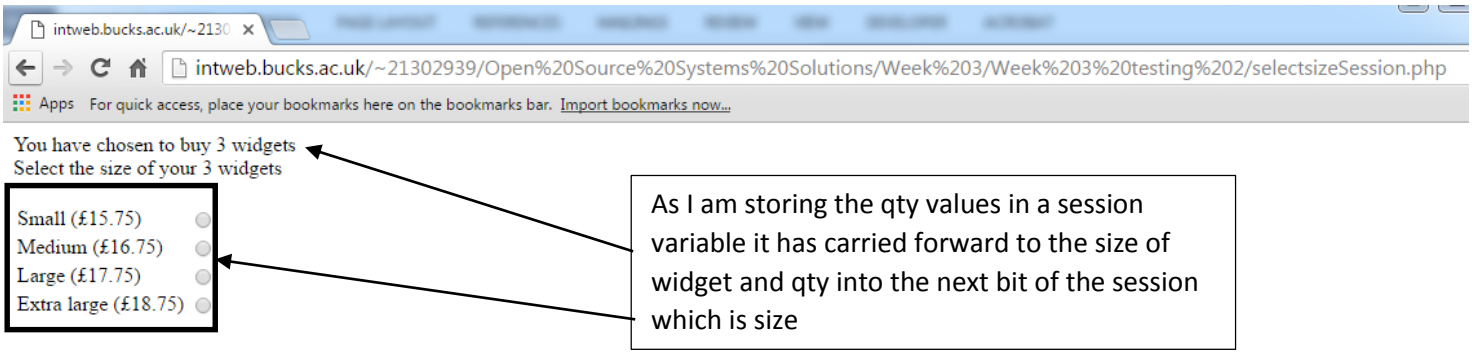
Week 4 Exercise 3 – Widget shop using Session variables

confirmationSession.php | confirmationSession_v2.php | selectcolourSession.php | shopSession.html

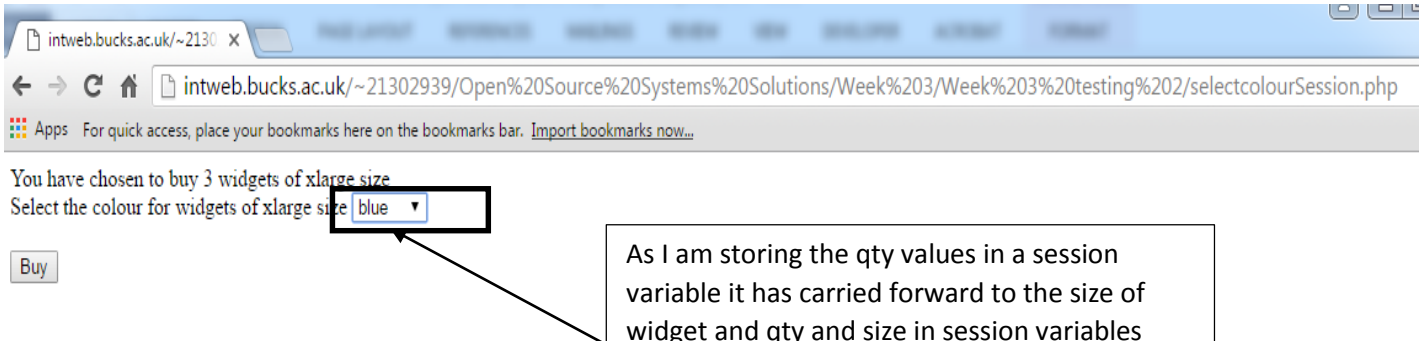
```php
<?php

    session_start();

    //S_SESSION is the name of the variable that stores the data whilst the script is moving between stages

    echo "<h2> Your order quantity is     : ". $_SESSION['quantity']. "</h2,><br/>";              // print out the order quantity
    echo "<h2> The price of widgets is    : £". $_SESSION['price']. "</h2,><br/>";                // print out the prices of the widgets
    echo "<h2> and the selected colour is : $_POST[selcolour]</h2><br/><br/>";                    // print out what the selected colour of the widgets are
    echo "<h2> Total price to pay is      : £". $_SESSION['quantity']*$_SESSION['price']."</h2,><br/>";        // print a message to state the total price

?>
```



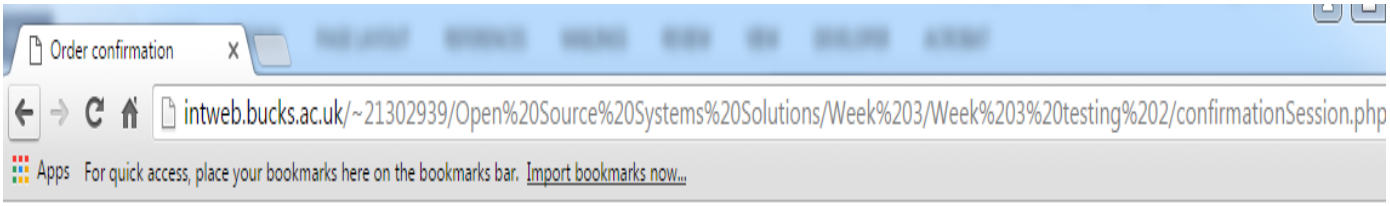
Here a user is using the shop again but with a session variable which means it stores the information going into the script carries forward by using the buy button



As I am storing the qty values in a session variable it has carried forward to the size of widget and qty into the next bit of the session which is size



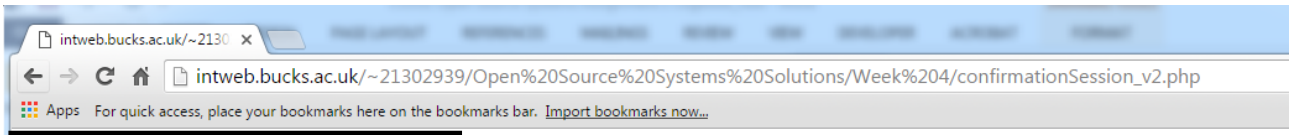
As I am storing the qty values in a session variable it has carried forward to the size of widget and qty and size in session variables now it's onto selecting the colours in session variables



Order confirmation Specification

Order quantity :	3
Widget size :	xlarge
Colour :	blue
Price per widget :	£18.75
Total price :	£56.25

Having stored and got user input for all the things such as qty and colour of the widgets here is the full confirmation by using a session variable



Your order quantity is : 5

The price of widgets is : £15.75

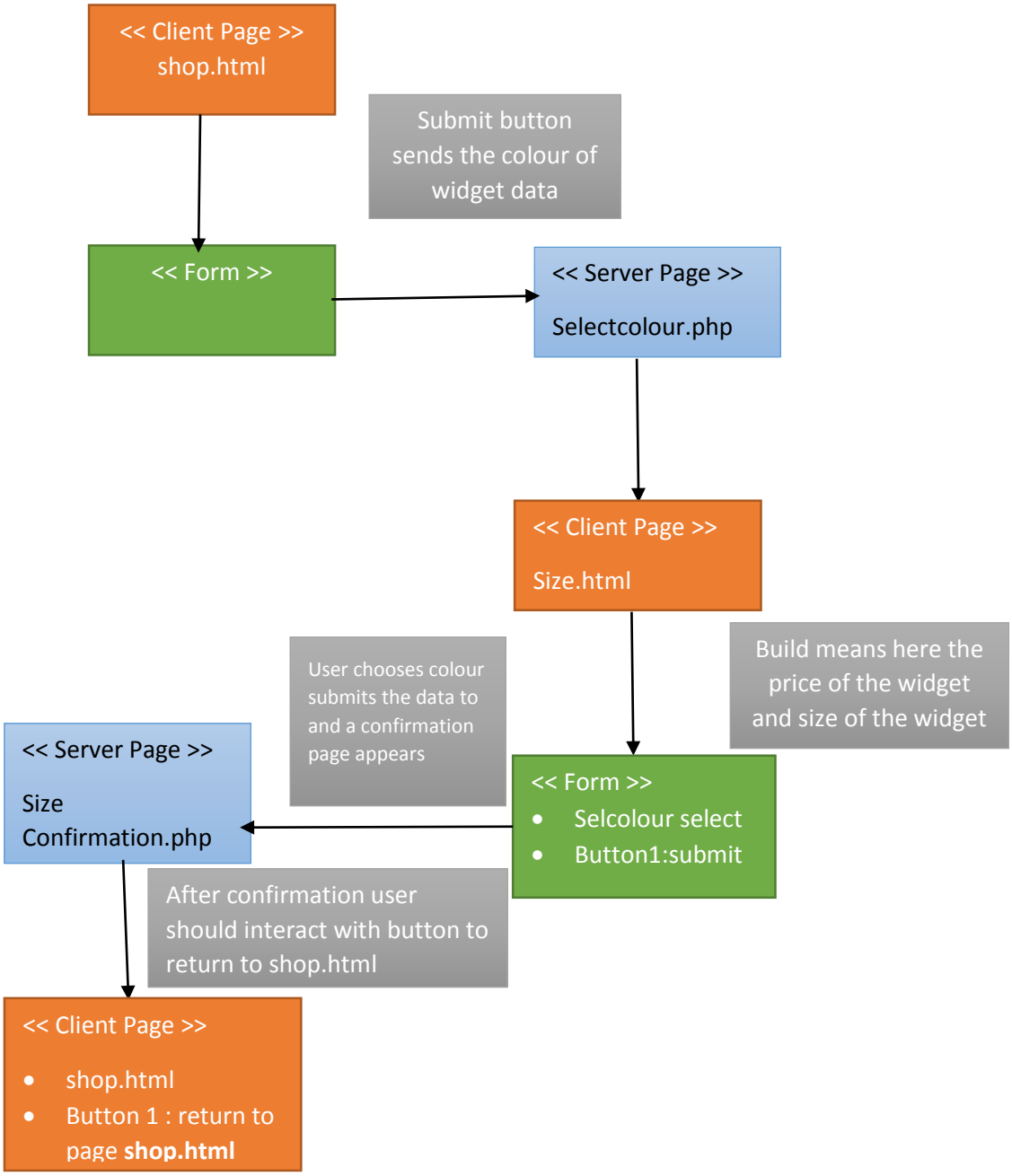
and the selected colour is : yellow

Total price to pay is : £78.75

Having stored and got user input for all the things such as qty and colour of the widgets here is the full confirmation by using a session variable

Week 4 Exercise 5 – the overall design structure of client pages forms and server pages how its all going to link together in UML notation

Better shop design structure



Shop re structure explained

The first page is the client page this passes the data into the form then submit then choose the colour of the widget that then gets sent. Then the user will pick a size and submit the data and lastly a confirmation page will display stating the following

- Total Price of widgets purchased
- Size of widgets
- Colour of widget or widgets purchased

Structure Key
Blue = Server php pages
Orange = Client HTML pages
Green = Forms on client HTML pages
Sliver = Description of actions between each page

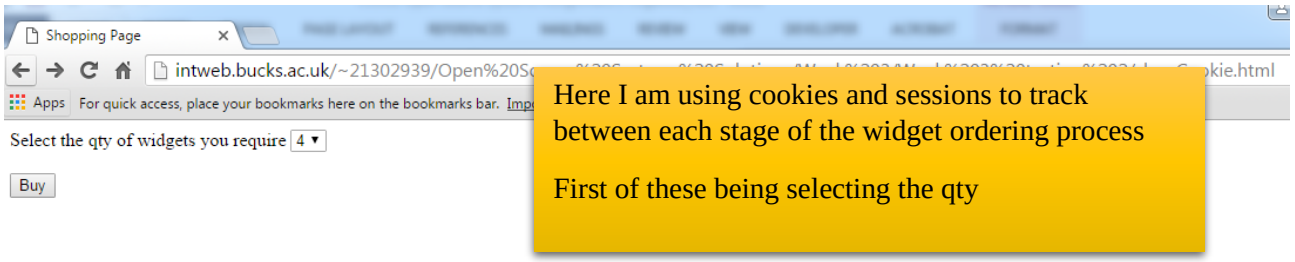
Using Cookies to store data which is quality and colour

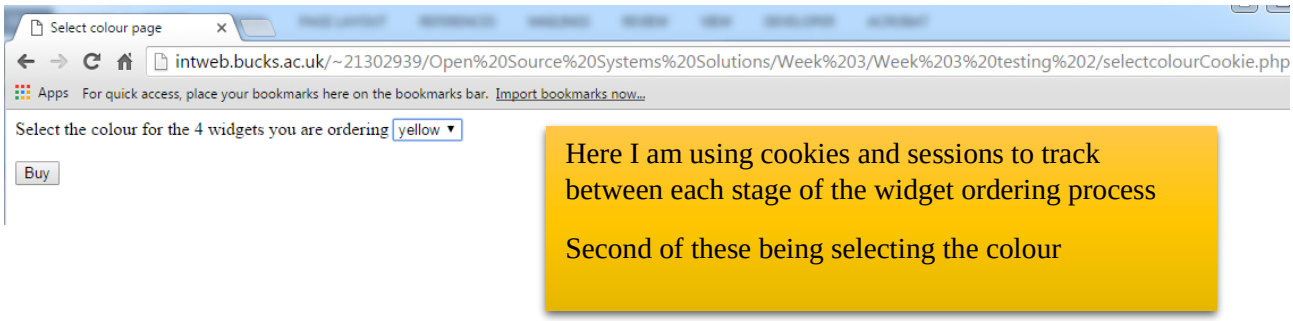
Cookies in php overview

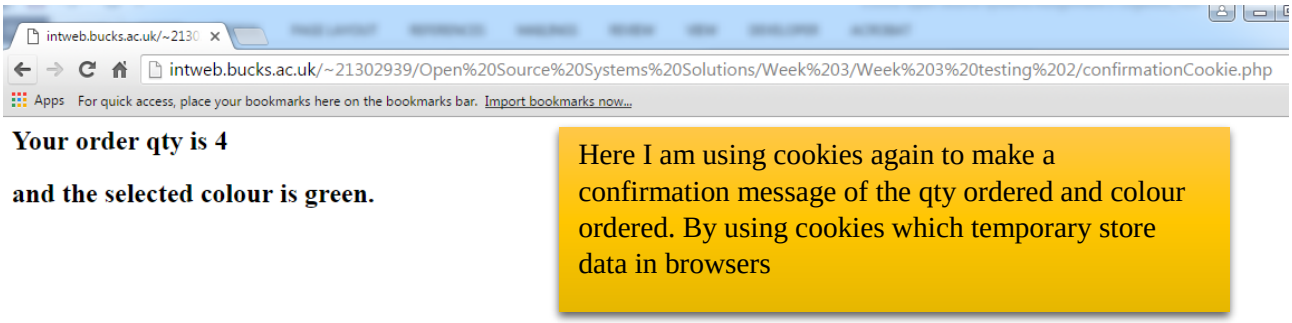
Cookies are a mechanism for storing data in the remote browser and thus tracking or identifying return users. You can set cookies using the setcookie() or setrawcookie() function. Cookies are part of the HTTP header, so setcookie()

Reference

Tech Target.com. (2016). Cookie . Available: http://searchsoftwarequality.techtarget.com/definition/cookie. Last accessed 13th April 2016.







Week 5 Exercises

MY SQL

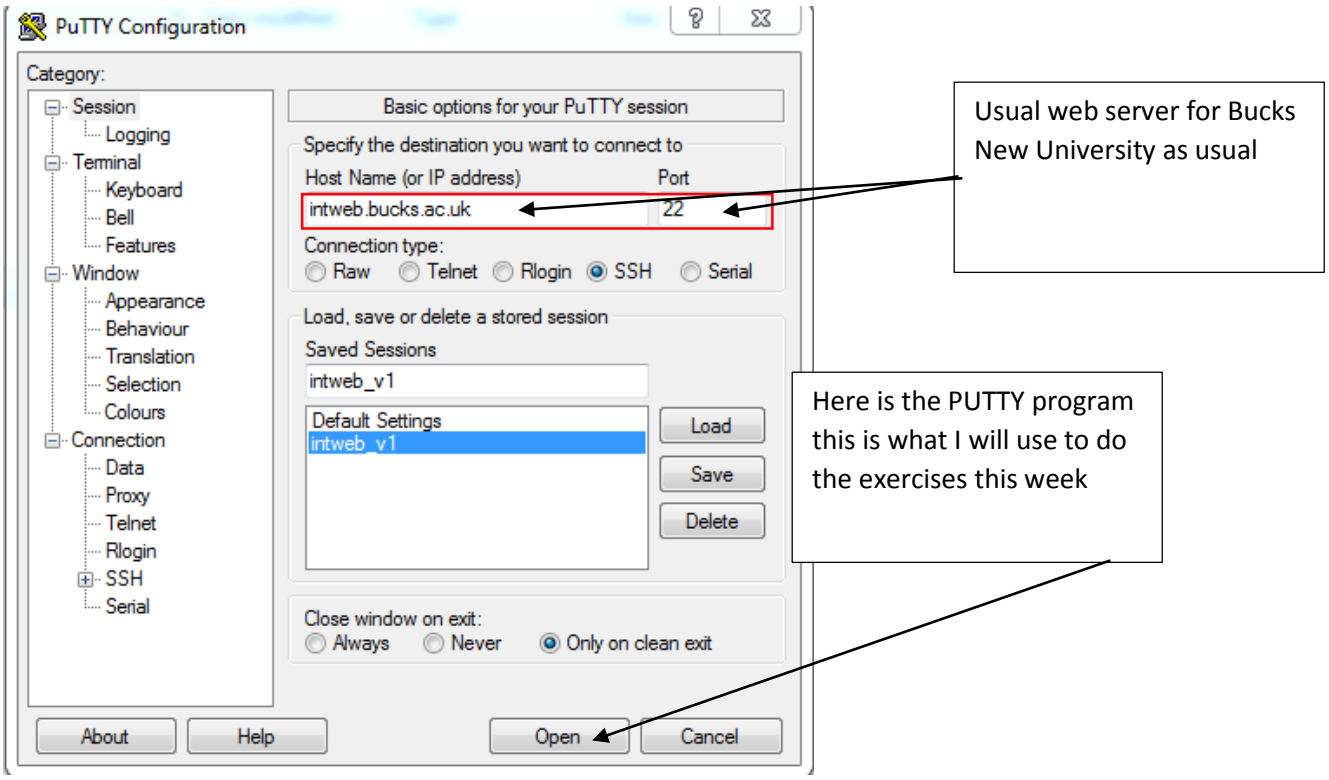
Week 5 Exercise 1 - Logging in configuring PUTTY terminal program

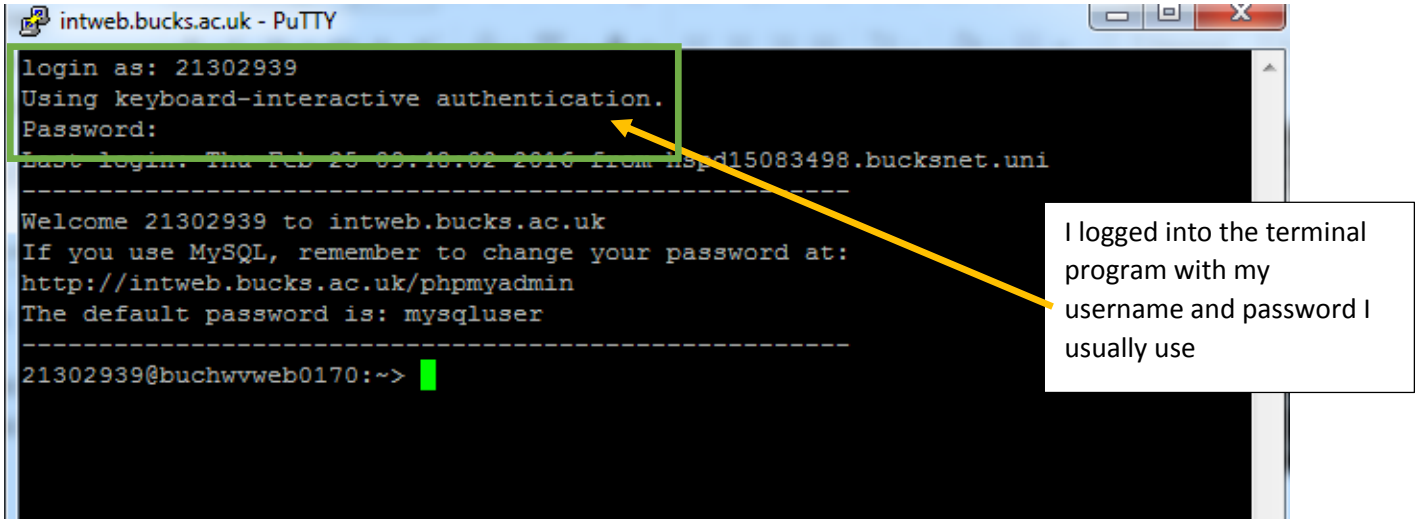
In this exercise I created in command line MySQL a table named test with the following fields

- Name
- Email
- Phone Number
- ID
- And I also set the primary key to be ID

The fields also had data types associated with them

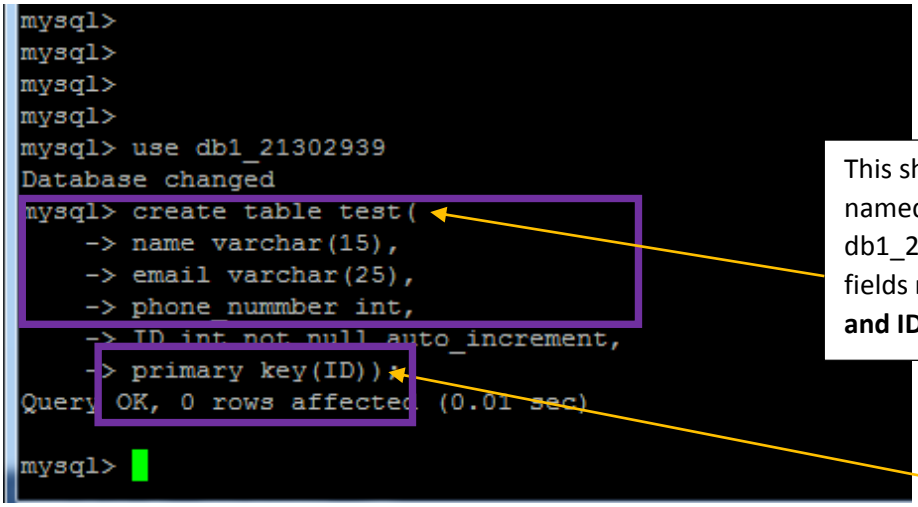
For name this was varchar for email the same phone number was int





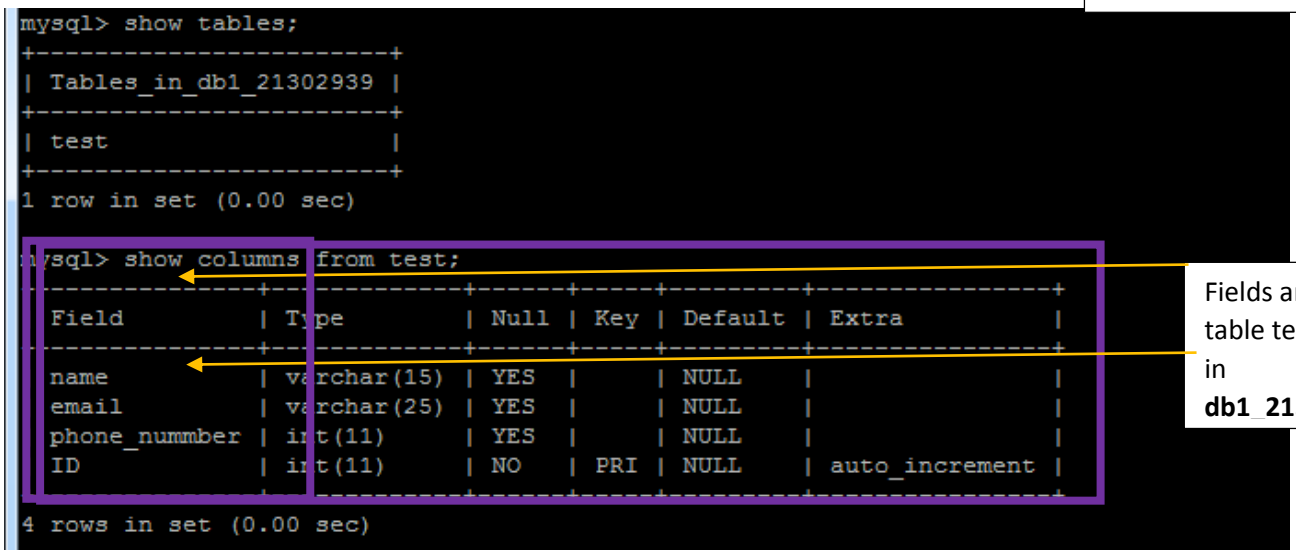
Week 5 Exercise 2 – creating a table in the my sql command line

This exercise was all about showing the tables in the my sql command line the function was in my sql show tables but first what was important is to create a database so things could be stored and I did and named the database db1_21302939

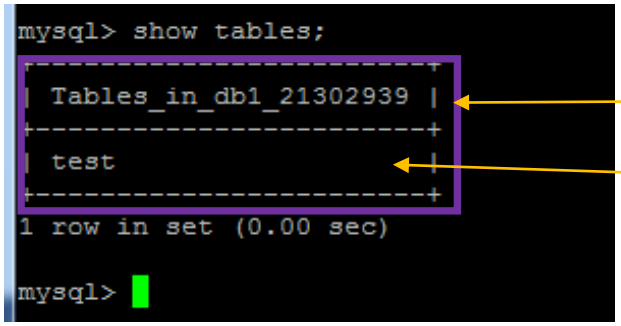


This shows me creating the table named test in the database named db1_21302939 with the following fields **name email phone number and ID**

Have set the primary key to be ID and auto increment so each time new records are added a new ID gets auto generated



Fields and data in table test that is in **db1_21302939**



This just shows how many tables are in db1 and there is just 1 named test

Week 5 Exercise 3 – show the columns using the my sql command line

```
mysql> show columns from test;
+--------------+------------+------+-----+---------+----------------+
| Field        | Type       | Null | Key | Default | Extra          |
+--------------+------------+------+-----+---------+----------------+
| name         | varchar(15) | YES  |     | NULL    |                |
| email        | varchar(25) | YES  |     | NULL    |                |
| phone_nummber | int(11)    | YES  |     | NULL    |                |
| ID           | int(11)    | NO   | PRI | NULL    | auto_increment |
+--------------+------------+------+-----+---------+----------------+
4 rows in set (0.00 sec)

mysql>
```

Here all I am getting a simple print of all the columns to see where the primary key is and it has the feature of auto increment which means when new records get added a ID will proceed to 2 3 4 5 and so on.

The other advantage of this is the operator does not have to keep inputting the ID reference in all the time

Week 5 Exercise 4 – inserting a new field and info into the table using the my sql command line

Here I am adding a new field into the table named test in the database named db1_21302939 the field is named values which is going to be called values and will have the data inputted as the following below

- Bugs Bunny carrots@server3.com

```
mysql> INSERT INTO test VALUES
    -> ('Bugs Bunny', 'carrots@server3.com',
    -> 5554321, NULL);
ERROR 1046 (3D000): No database selected
mysql> use db1_21302939
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> INSERT INTO test VALUES
    -> ('Bugs Bunny', 'carrots@server3.com',
    -> 5554321, NULL);
Query OK, 1 row affected (0.00 sec)

mysql>
```

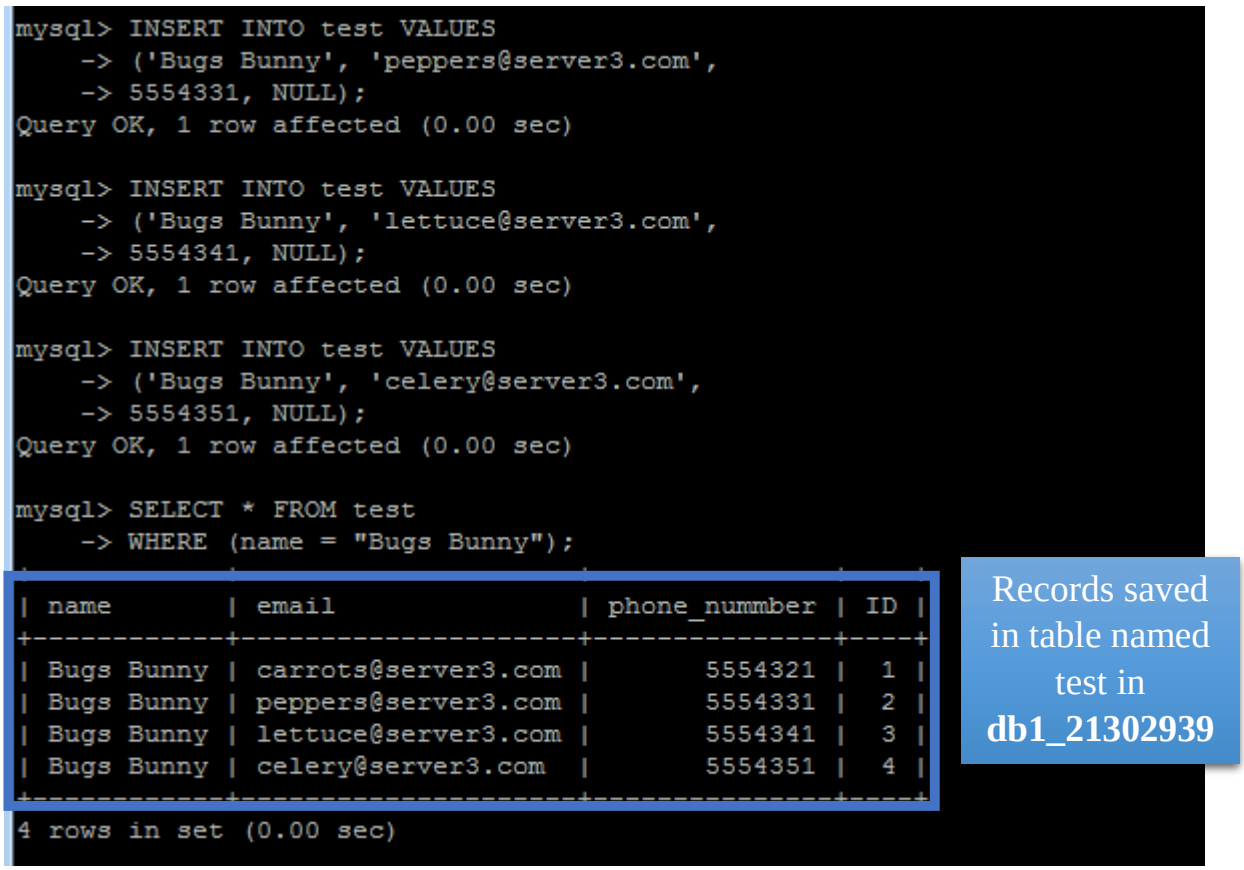
Week 5 exercise 5 – using the my sql to select all the data from the table named test

This exercise all I am doing is selecting all the fields from table test and putting in a where query is equal to the name Bugs Bunny

The following output was Bugs Bunny in the name column carrots@server3.com in the email field

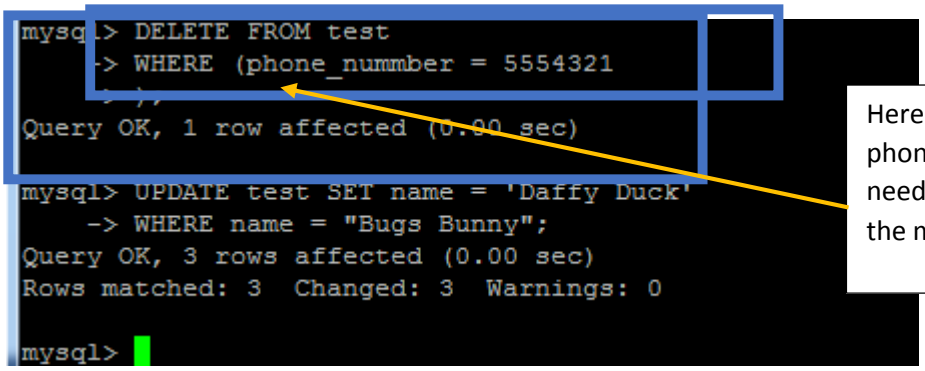
Select * [Star] means select all the fields and data within them – not just some but all

Week 5 exercise 6 – inserting 3 new records into the table named test using command line



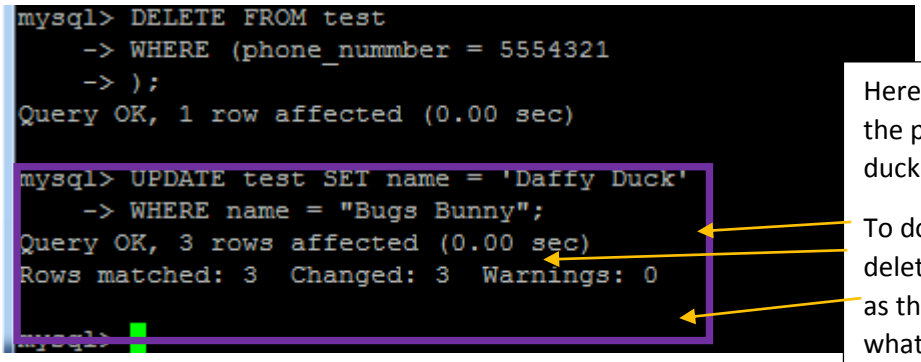
Here I have inserted some more emails but with the same name Bugs Bunny assisted with them I did this by using the Insert command into test which is the table name and values which is the command to insert and store data in the command line

Week 5 exercise 7 – deleting data using the my sql command line prompt



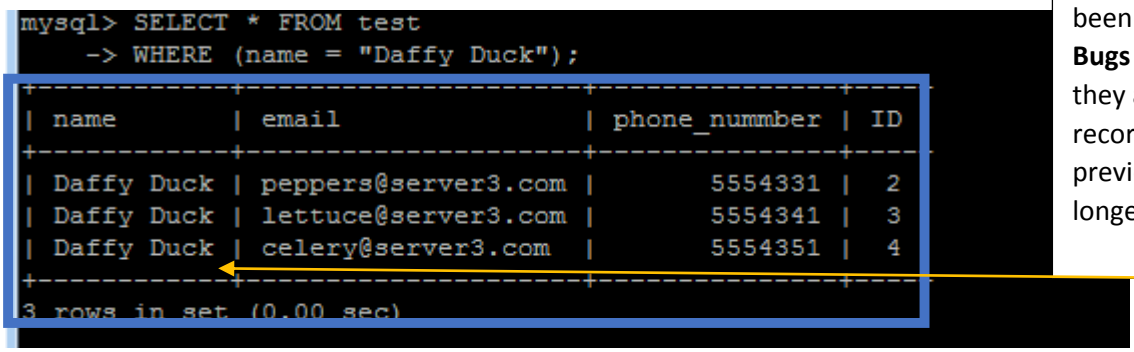
Here I am deleting one of the phone numbers as its no longer needed to do this I am using the my sql delete command

Week 5 exercise 8 – changing the name of bunny from Bags Bunny to daffy duck using my sql command line in PUTTY



Here I am going to update the name of the product from Bugs Bunny to daffy duck as there was an input error

To do this I am going to use the my sql delete command and where command as there command line needs to know what the pervious product name was



Here you can see the name has been successfully changed from **Bugs Bunny** to **Daffy Duck** and they are only 3 as one of the records has been deleted in the previous exercise 7 as it was no longer needed

Week 6 Exercises

Php with MY SQL

Week 6 Exercise 1 – using a windows text editor to send an email name and tel number to the table named test

HTML file

wk6ex1.html | wk6ex1action.php | wk6ex2.php | wk6ex2action.php | wk6ex5.php | guestbook.txt.txt

```
1  <html>
2  <head></head>
3  <body>
4      <form action= 'wk6ex1action.php' method='post'>
5      Enter name:
6      <input type='text' name='txtName' /><br/>
7      Enter email :
8      <input type='text' name='txtEmail'/><br/>
9      Enter Tel number :
10     <input type='text' name='txtPhoneNumber'/><br/><br/>
11     <input type='submit' value='Save Data' />
12     </form>
13 </body>
14 </html>
15
```

This is a standard HTML form

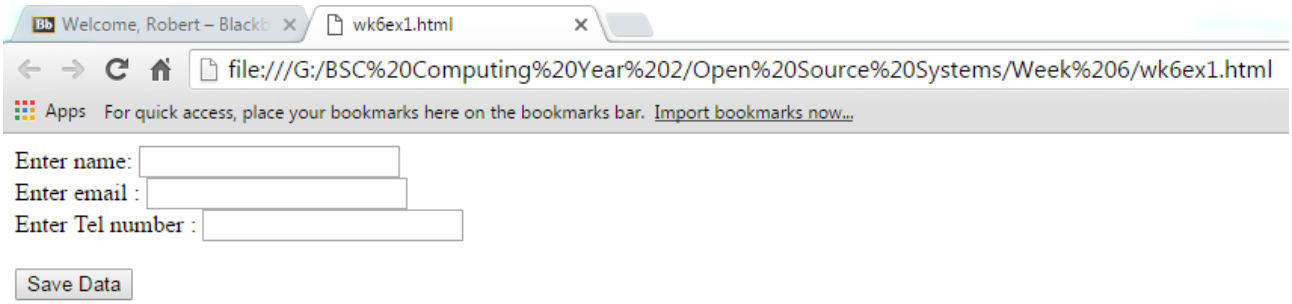
User Input box will be generated where red rectangles are

Submit the data to a php script by a user pressing on the submit type of input

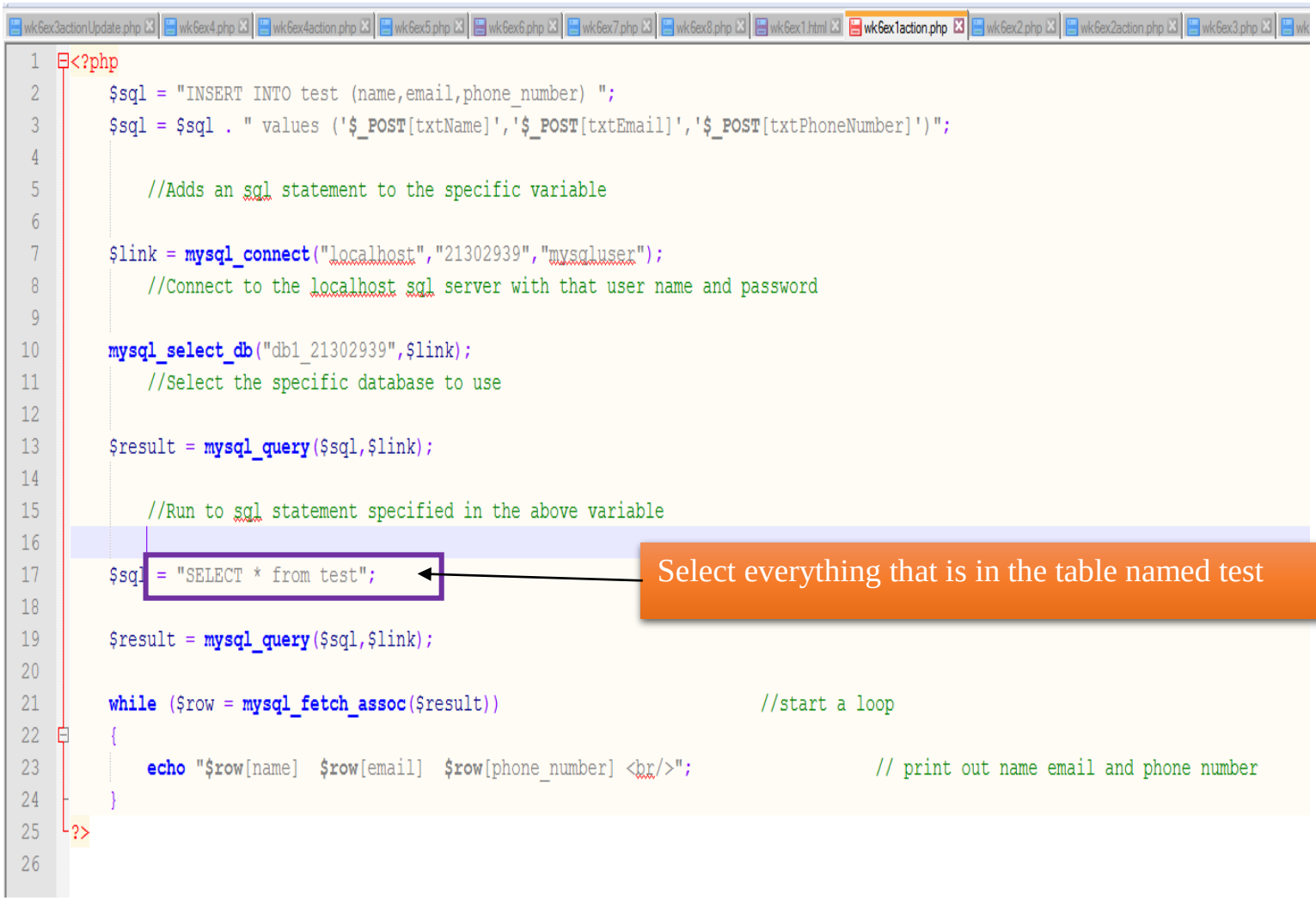
Here I am getting user input on a form for a user to type her's or his

- Name
- Email
- Telephone Number

Then when a user clicks on the submit button this triggers an action to the php file to store it in the database I created which is **db1_21302939** and the data will go in the table named test



Here is the form that I will gather the user input and a button to store the data



Php action script file

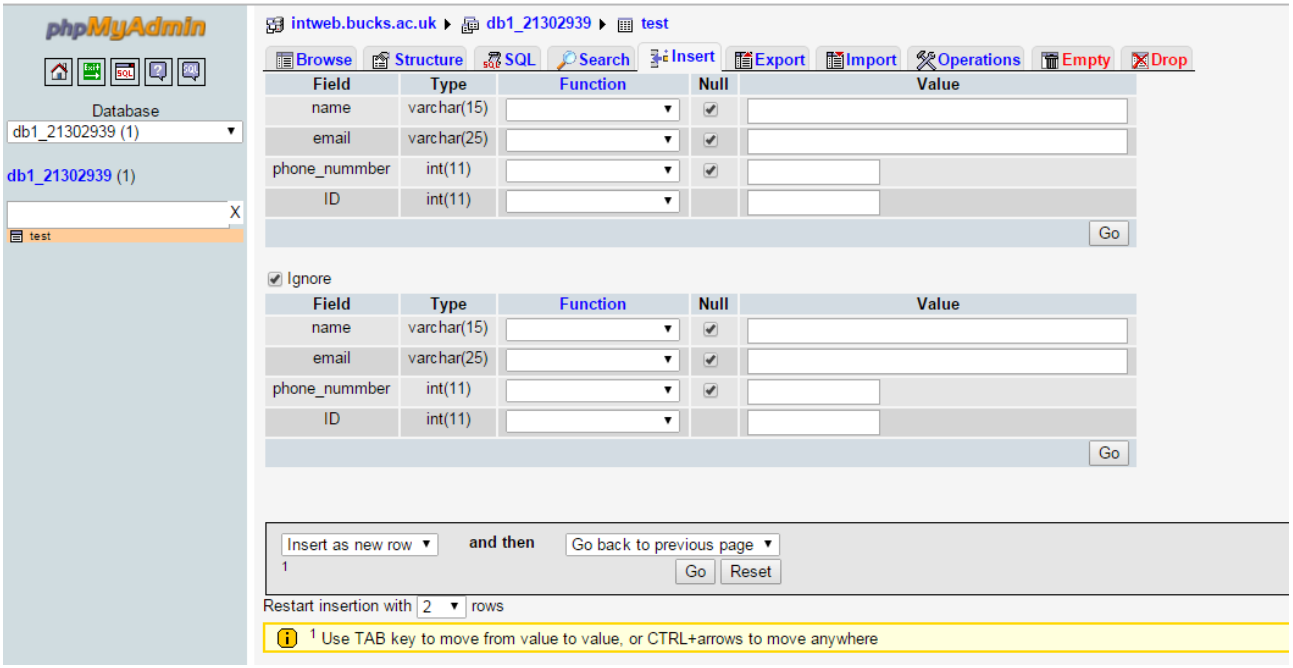
On page 52

Here I am using notepad++ to create a php script with sql statements in such insert.

Here I am inserting name email phone number into the table named test on my php my admin database entitled **db1_21302939** then to pull the data out to display is the select star command which in my sql means select all the fields and data

I have also used variables named row and result to output the result of queries and output the row names, which are

- Name
- Email
- Phone Number



Here you can see the fields for the table named test have been created using the int web server on a windows tool named php my admin

Php script 1

```php
<?php

    // Connect to the server
    $link = mysql_connect('localhost', '21302939', 'mysqluser');

    //Select the correct database
    mysql_select_db('db1_21302939', $link);

    //Declare query as an $sql variable
    $sql = "SELECT * from test";

    // Pass and execute sql SELECT statement
    $result = mysql_query($sql);
?>

<html>
<body>

<?php
while ($row = mysql_fetch_assoc($result))
{
    printf("<a href=\"%s?id=%s\">%s</a><br>\n","wk6ex2action.php", $row["name"], $row["phone number"], $row["email"]), $row["ID"]);

}
?>
</body>
</html>
```

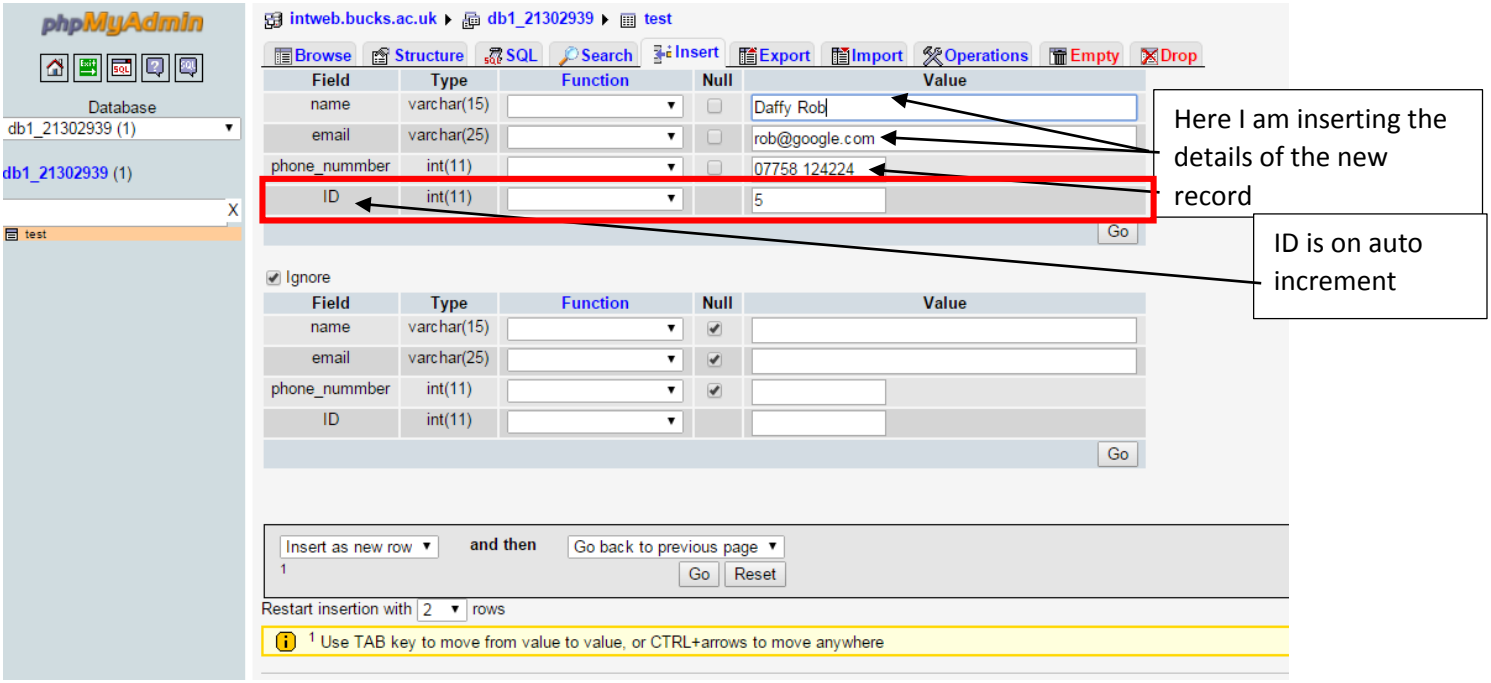
Here I have created a php script to look up and run a query and inserting new records into the database named **db1_21302939**

Php script 2

```php
<html>
<body>
<form action="wk6ex2action.php" method="post">

    Name :
    <input type=text name=txtname value="<?php echo $row[name] ?>" readonly />
    </br>
    Phone number :
    <input type=text name=txttelno value="<?php echo $row[phone_number] ?>" />
    </br>
    Email :
    <input type=text name=txtemail value="<?php echo $row[email] ?>" />
    </br>
    <input type=submit name=btnsubmit value="save"/>
</form>
</body>

<?php
    // Connect to server - remember to use mysql password
    $link = mysql_connect('localhost', '21302939', 'mysqluser');

    //Select database
    mysql_select_db('db1_21302939', $link);

    // Declare query as $sql variable
    $sql = "SELECT * from test where name = '$_GET[id]' ";
    $sql = "SELECT * from test where name = '$_GET[name]' ";
    $sql = "SELECT * from test where name = '$_GET[phone_number]' ";
    $sql = "SELECT * from test where name = '$_GET[email]' ";

    // Execute query
    $result = mysql_query($sql);

    $row = mysql_fetch_assoc($result);
?>
```

In this script I am getting user input in html format for name phone number and email address

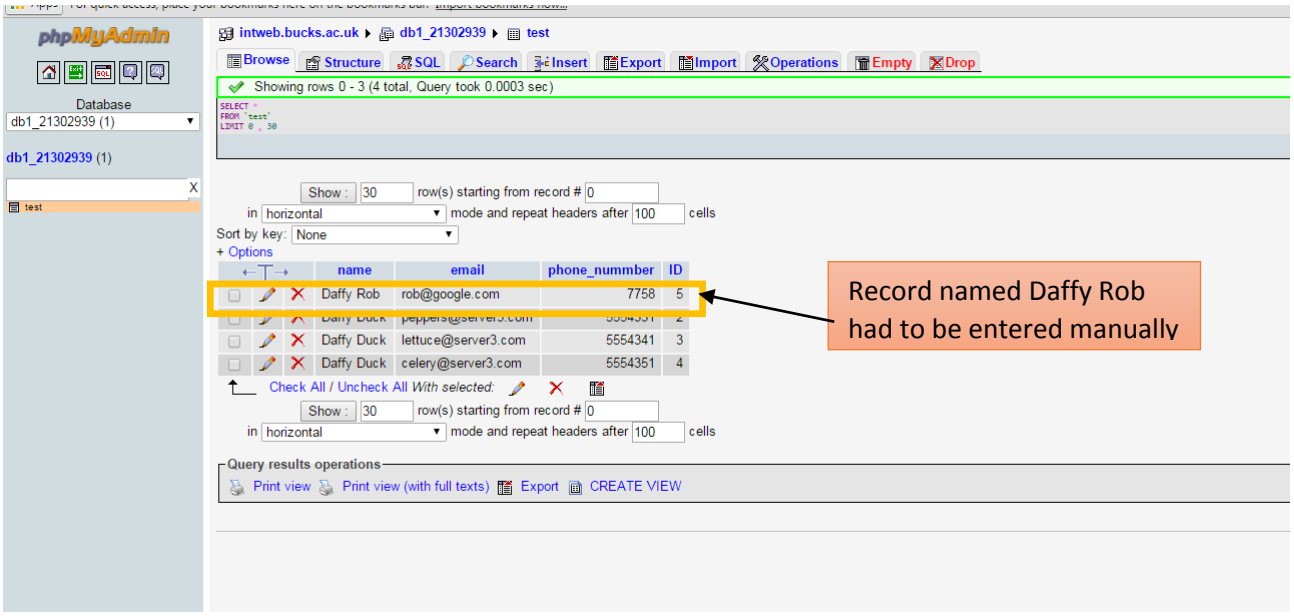
Then the php will look up the database named **db1_21302939** to input the data into the database



I had a problem with this exercise that it should write a new record to the database which it did not do due to some unknown error that is beyond my control.

So I added the record manually to the database I created the week before using the command line PUTTY terminal program but though the php my admin page using the same login details as what I used for putty

These were my user uni ID number **21302939** as the user name and the password all lower case mysqluser



Week 6 Exercise 3

Not attempted as could get not get to even work

Week 6 Exercise 4

Not attempted as could get not get to even work

Week 6 Exercise 5 – using an include file to include and demo functions using the php language

Source Code

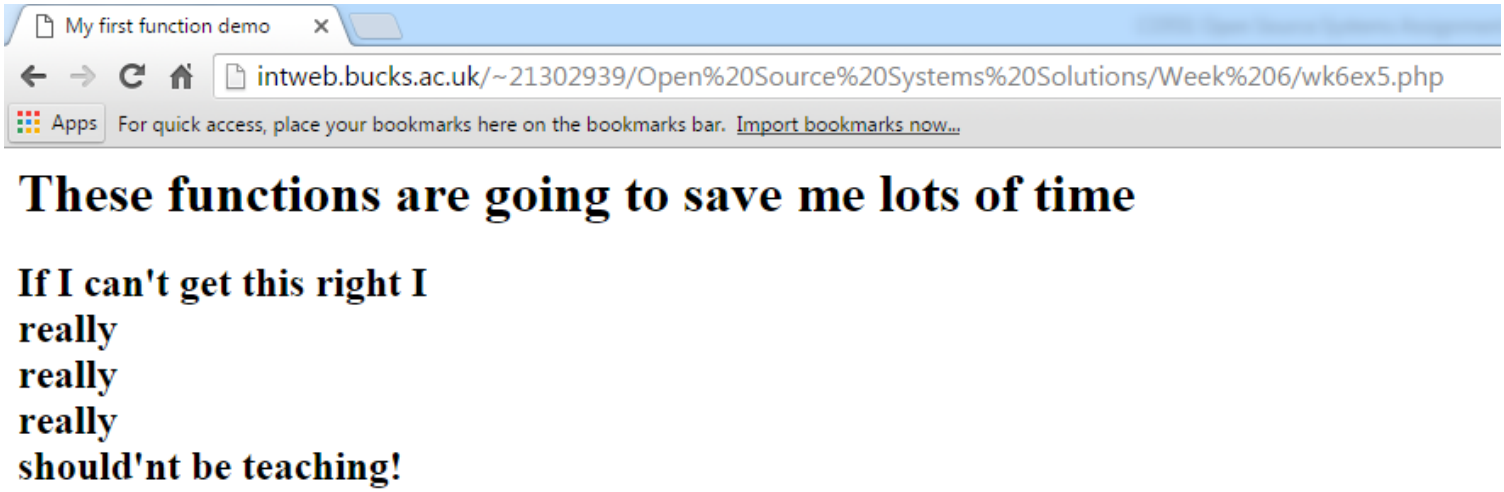
Here I am making life easier for myself by including a functions file which will give me more flexibility as it knows to produce the output for the script

wk6ex5.php

```
1  <?php
2
3      include("myfunctions.inc"); // include the file named myfunctions.inc
4      html_header("My first function demo");          // have a header named my first function demo
5      html_h1("These functions are going to save me lots of time");   // print out this message
6      html_h2("If I can't get this right I<br/>really<br/>really<br/>really<br/> should'nt be teaching!");    // print out this message
7      html_footer();
8  ?>
9
```

A way I can print out messages in html format in a php script is by using html with an underscore e.g. html_h1 would print out a heading in h1 format in a php script

Code output



Using the html h1 h2 and header syntax I have learnt another way of embedding html in a php script and also the break tag br is used to separate the words onto new lines

Week 6 Exercise 6 – Salary and tax and tax pay 1 script 1

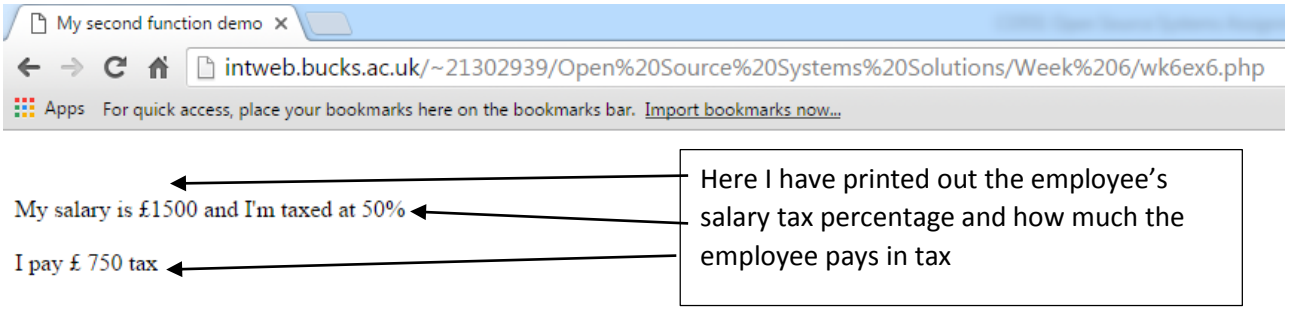
Source Code

wk6ex5.php wk6ex6.php

```php
<?php
    include("myfunctions.inc");            // include the file named myfunctions.inc
    html_header("My second function demo");
    echo "<br/><br/>My salary is £1500 and I'm taxed at 50%<br/><br/>";          // print out the message saying what the salary is
                                                                                 // and how much the tax amount is
    echo "I pay £ " . calculatetax(1500,50) . " tax";                            // print out message saying the tax amount
    html_footer();                                  // display footer
?>
```

Here is the source code for exercise 6 in week 6 to make it easier I have made a include file to include all the functions for the program to produce the output on a web browser such as Google Chrome

Output of code



Here is the code output for week 6 exercise 6 it is outputting 3 main things that an employee of a company wants to know these are

- Salary
- Tax percentage

How much tax does the employee of the company pay

Week 6 Exercise 7– Salary and tax and tax pay 2 script 2

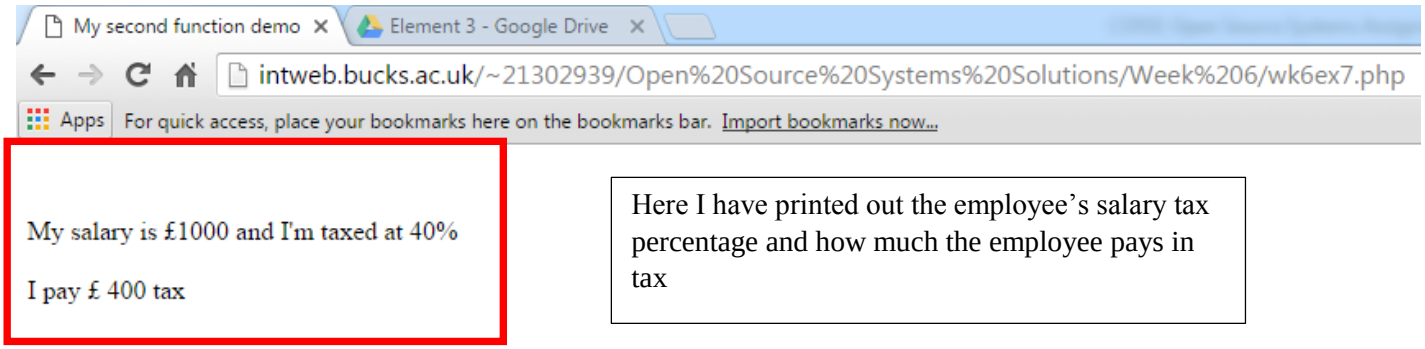
Source code

wk6ex5.php | wk6ex6.php | wk6ex7.php

```php
<?php
    include("myfunctions.inc");              // include all the functions for the script in a file named my functions.inc
    html_header("My second function demo");  // define a header
    echo "<br/><br/>My salary is £1000 and I'm taxed at 40%<br/><br/>";     // print out the salary and tax rate of the employee
    echo "I pay £ " . calcTaxDefault(1000) . " tax";       // print out how much tax the person pays
    html_footer();
?>
```

Here I am using an include file with functions in that will help me print out the salary messages and amount of tax I pay as an employee of this made up company

Output of code on screen



Here I have printed out the employee's salary tax percentage and how much the employee pays in tax

Here is the code output for week 6 exercise 7 it is outputting 3 main things that an employee of a company wants to know these are

- Salary
- Tax percentage
- How much tax does he or she pay as an employee of the company

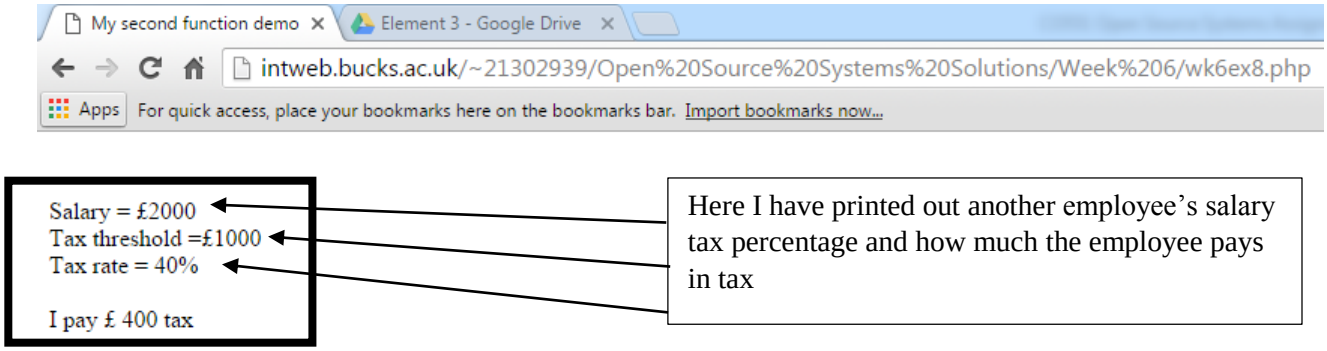
Source code

wk6ex5.php | wk6ex6.php | wk6ex7.php | wk6ex8.php

```
1  <?php      // start of php script
2
3      include("myfunctions.inc");              // include all the functions in the file entitled my functions.inc
4      html_header("My second function demo");  // Script page title
5      echo "<br/><br/>Salary = £2000<br/>Tax threshold =£1000<br/>Tax rate = 40%<br/><br/>";  // print out the salary the person earns
6      echo "I pay £ " . calcTaxDefaultThreshold(2000, 40, 1000) . " tax";     // print out the tax that the person pays
7      html_footer();
8  ?>
```

Here I am using an include file with functions in that will help me print out the salary messages and amount of tax I pay as an employee of this made up company

Output of code typed in



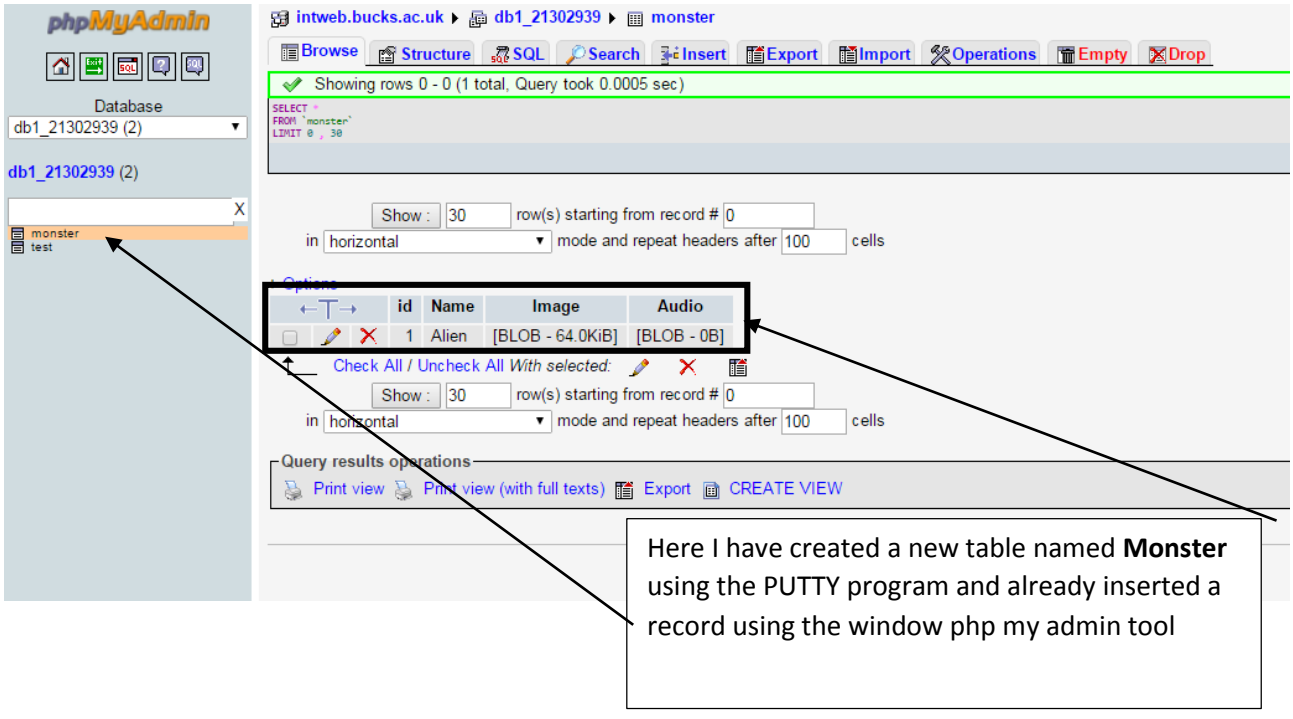
Here I have printed out another employee's salary tax percentage and how much the employee pays in tax

Week 7 Exercises

Week 7 Exercise 1 – creating table named monster using the my sql command line

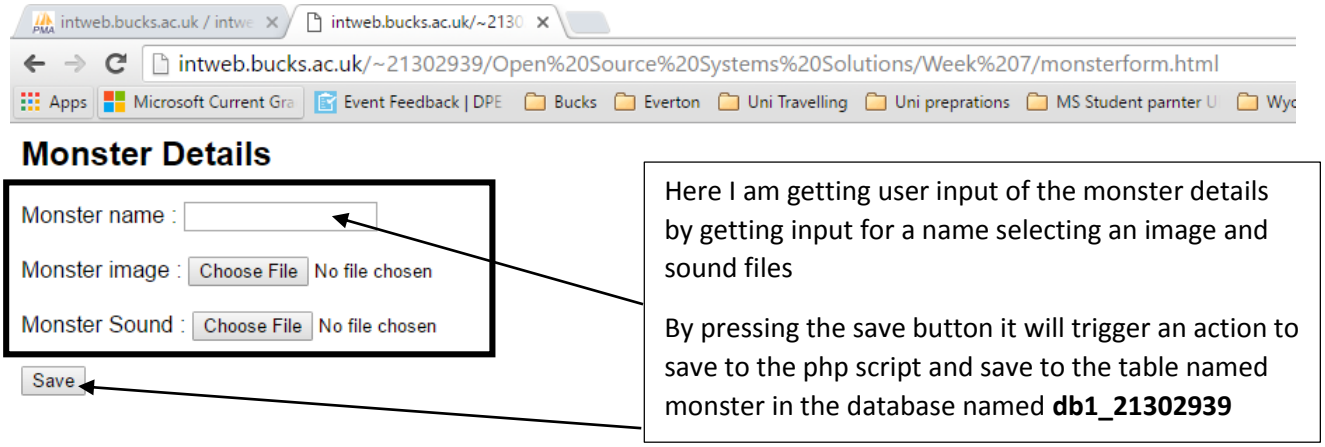
```
intweb.bucks.ac.uk - PuTTY
login as: 21302939
Using keyboard-interactive authentication.
Password:
Last login: Tue Mar  1 10:18:01 2016 from hspd15087699.bucksnet.uni
------------------------------------------------------
Welcome 21302939 to intweb.bucks.ac.uk
If you use MySQL, remember to change your password at:
http://intweb.bucks.ac.uk/phpmyadmin
The default password is: mysqluser
------------------------------------------------------
21302939@buchwvweb0170:~> mysqluser
If 'mysqluser' is not a typo you can run the following command to lookup the pac
kage that contains the binary:
    command-not-found mysqluser
-bash: mysqluser: command not found
21302939@buchwvweb0170:~> mysql -u 21302939 -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28086
Server version: 5.0.67 SUSE MySQL RPM

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use db1_21302939
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> Create table monster
    -> (id integer not null auto_increment,
    ->  Name varchar(20) not null,
    ->  Image blob not null,
    ->  Audio blob not null,
    ->  Primary key(id));
Query OK, 0 rows affected (0.01 sec)
```

In my database1_21302939 I have here created a new table called monster with the following fields



Here I have created a new table named **Monster** using the PUTTY program and already inserted a record using the window php my admin tool

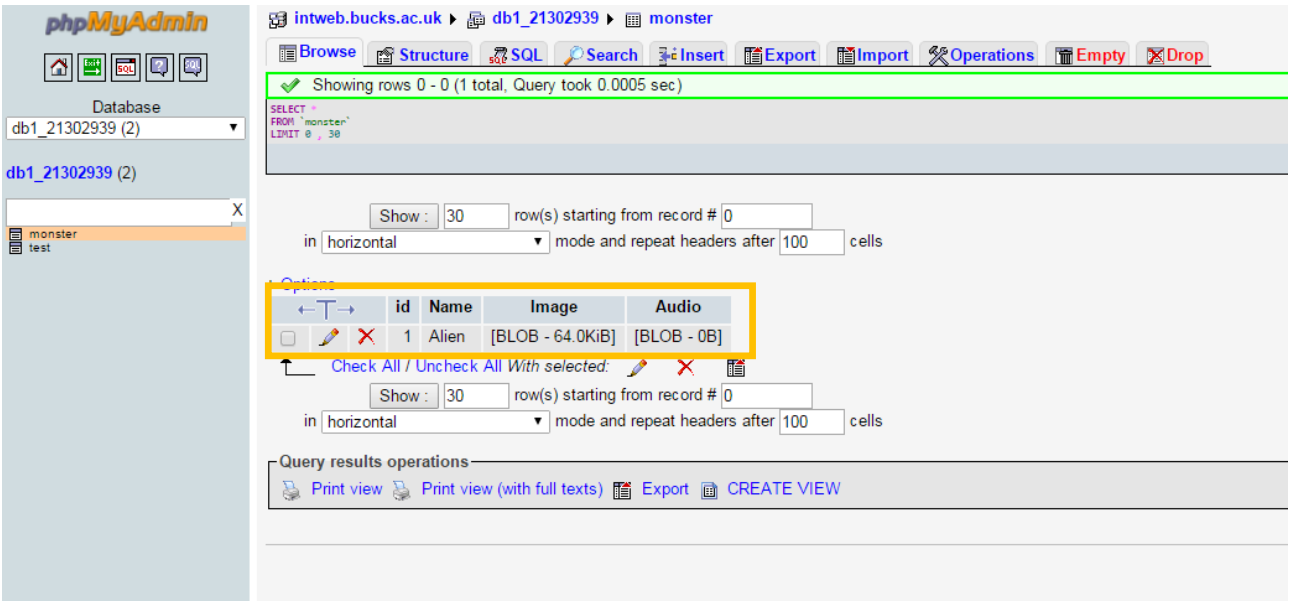
Week 7 Exercise 2 – capturing data to send to monster table



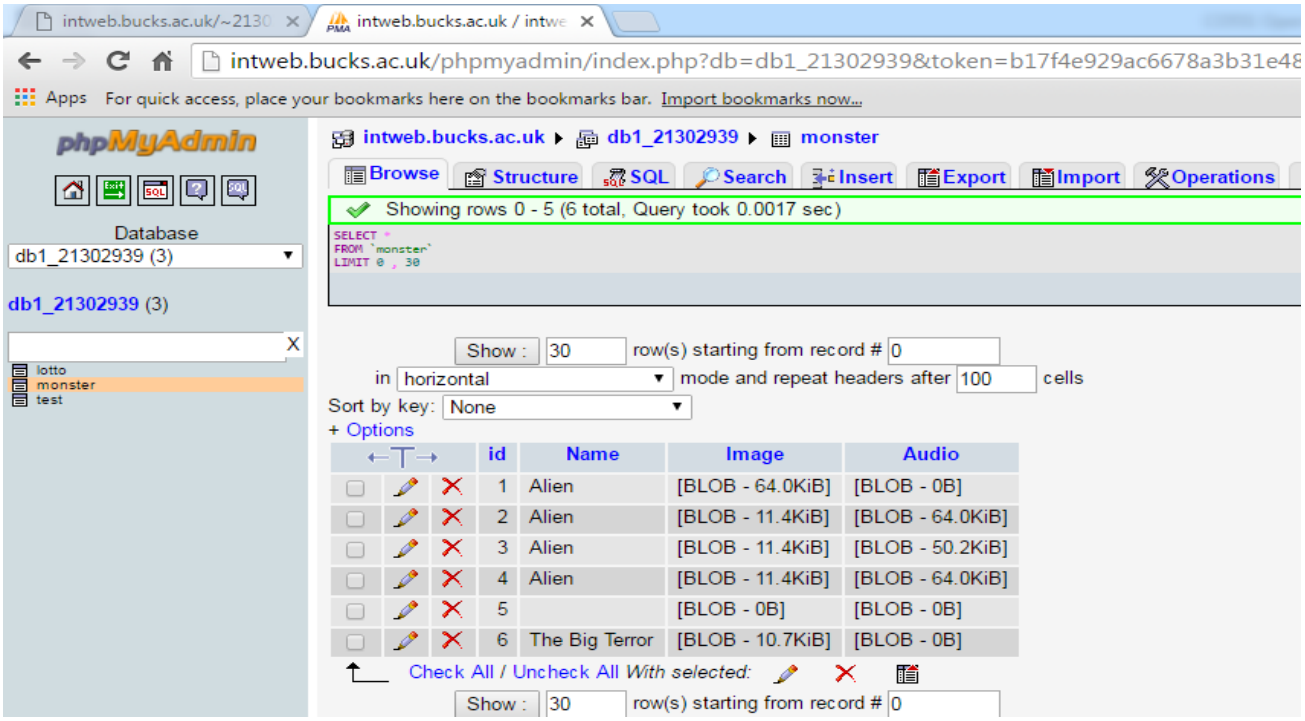
Here I am gathering user input for a new monster which will include the name image and audio file

Here is the result the database has been created and got some data in with the fields named.

- ID
- Name
- Image file
- Audio file



I forgot to add the audio file in the submission HTML form so that is why 0 Bytes



As you can see here when I selected and got user input for all the details they all stored successfully these were the

- Name of the monster
- Image of it
- Audio sound of it

ID is on auto increment

Some of the records of the monsters are 0 bytes this is because I did not choose an audio file to upload to the database

monsterform.html | savemonster.php | getjpg.php

```php
<?php

  header("Content-type: image/jpg");

  $conn = mysql_connect("localhost", "21302939","mysqluser");
  mysql_select_db("db1_21302939",$db); ",$conn);

  $sql = "SELECT image FROM monster WHERE id='". $_GET[id] ."';";

  $result = mysql_query($sql, $conn);
  $row = mysql_fetch_array($result);

  $jpg = $row["image"];

  echo $jpg;
?>
```

Select the correct database **db1_21302939**

Here is the get.jpg file which will send the jpg image data to the image box on the monsters table in database named

Store the jog's to the **db1_21302939**

displaymonster.php | example01.php | getjpg.php | getwav.php | monsterform.php | getjpg.php

```php
<?php

  header("Content-type: audio/wav");

  $conn = mysql_connect("localhost", "21302939","mysqluser")
  mysql_select_db("db1_rmathe01",$conn);

  $sql = "SELECT audio FROM monster WHERE id='" . $_GET[id] ."';";

  $result = mysql_query($sql, $conn);
  $row = mysql_fetch_array($result);

  $audio = $row["audio"];

  echo $audio;
?>
```

Select the correct database **db1_21302939**

Here is the get.wav file which will send the wav audio data to the image box on the monsters table in database named **db1_21302939**

Store the wav files to the **db1_21302939**

Week 7 Exercise 3 – Inserting name image and audio file into monsters table using php scripts

Source Code

Week 7 Exercise 3 – Inserting name image and audio file into monsters table using php scripts continued

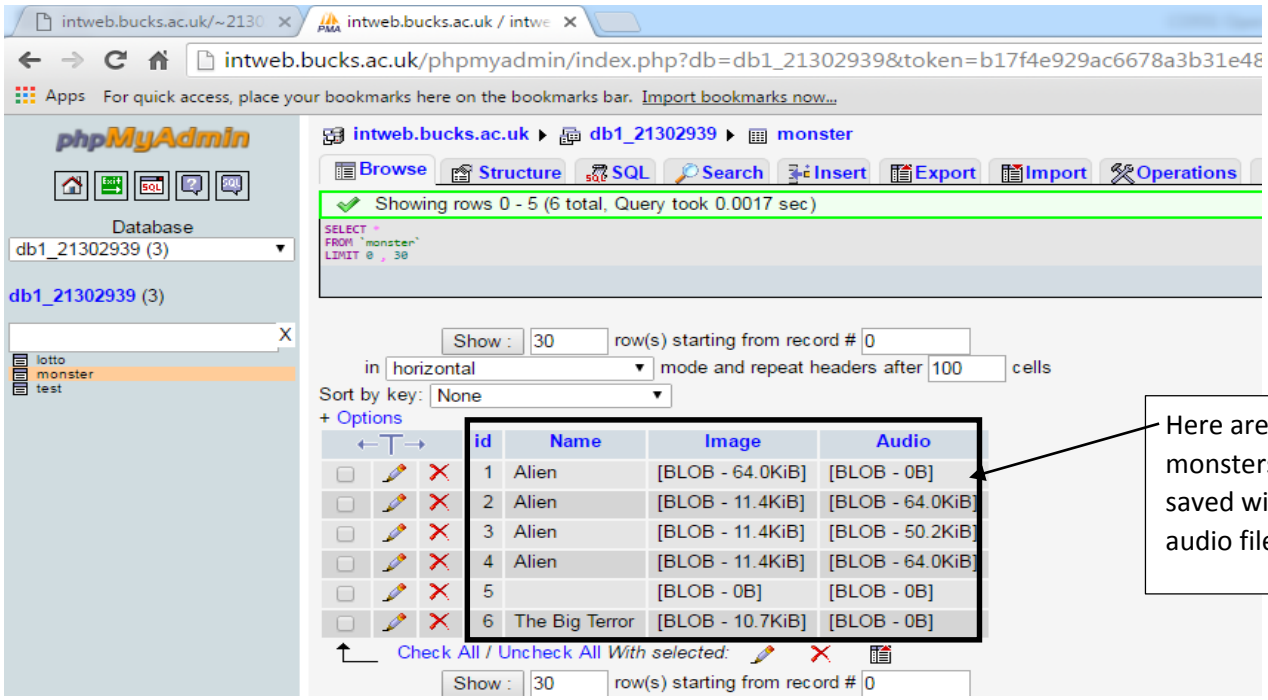
wk9ex3.php | wk9ex1.php | savemonster.php

```php
<?php


$db = mysql_connect("localhost", "21302939","mysqluser");          // select the correct database
mysql_select_db("db1_21302939",$db);


// Obtain the file sent from the monsters form within the response.
$image = $_FILES['monsterimage']['tmp_name'];
$audio = $_FILES['monsteraudio']['tmp_name'];


  // Get the file data
  $imagedata = addslashes(fread(fopen($image, "r"), filesize($image)));
  $audiodata = addslashes(fread(fopen($audio, "r"), filesize($audio)));

  $sql = "INSERT INTO monster";          // select the correct database table
  $sql .= "(name, image, audio) ";       // image name and audio are the feilds being inserted into the database system
  $sql .= "VALUES ('$_POST[txtname]', '$imagedata','$audiodata');";

  $result = mysql_query($sql, $db);

  mysql_close();

?>
```

Here I am inserting and saving new monster records into the database table named monster and in the database named **db1_21302939**

This will include the name an image and audio file

Showing data capture

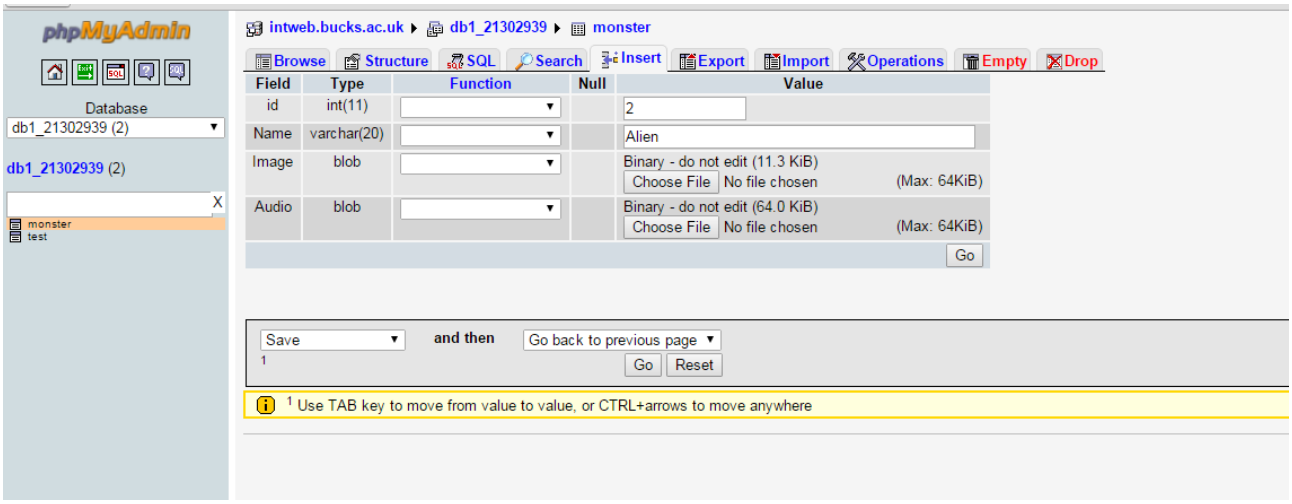


Here are all the monsters have been saved with image and audio files

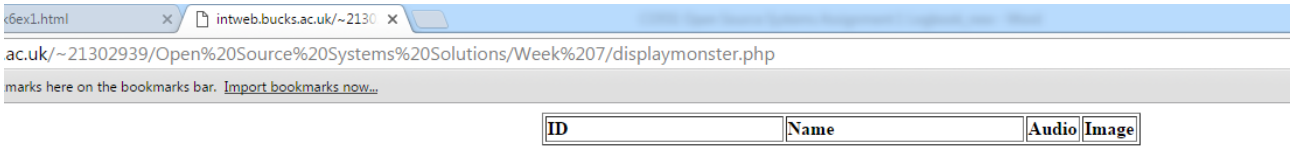
Source Code

displaymonster.php | example01.php | getjpg.php | getwav.php | monsterform.php | getjpg.php

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

<?php       // start of php script

$db = mysql_connect("localhost", "21302939","mysqluser");              // select the correct database
mysql_select_db("db1_21302939",$db);

$sql = "select id,name from monster;";

$result = mysql_query($sql, $db);


echo "<table align='center' border='1'>";           // Display a table
echo "<tr><th width='200' align='left'>ID</th><th width='200' align='left'>Name</th><th>Audio</th><th>Image</th></tr>";

    // Specify table properties width height alignment etc

while($row = mysql_fetch_assoc($result)){              // print out the following table rows and data
  echo "<tr>";
  echo "<td>" . $row[id] . "</td>";
  echo "<td>" . $row[name] . "</td>";
  echo "<td><a href='getwav.php?id=" . $row[id]. "'>Click to play</a></td>";
  echo "<td><img src='getjpg.php?id=" . $row[id]. "' height='100' width='100'</td>";
  echo "</tr>";
}

echo "</table>";

mysql_close();                  // close the my sql query

// End of php script
?>
```



Displaying info about monsters in a table on a web page



Here is where all the monsters should display after a submission to the database shown above

But there has been a problem they do not seem to be displaying this could be a server fault

Week 7 Exercise 5

Not attempted

Week 7 Exercise 6

Not attempted

Week 8 Exercise 1 – lottery numbers for a date script

Source Code

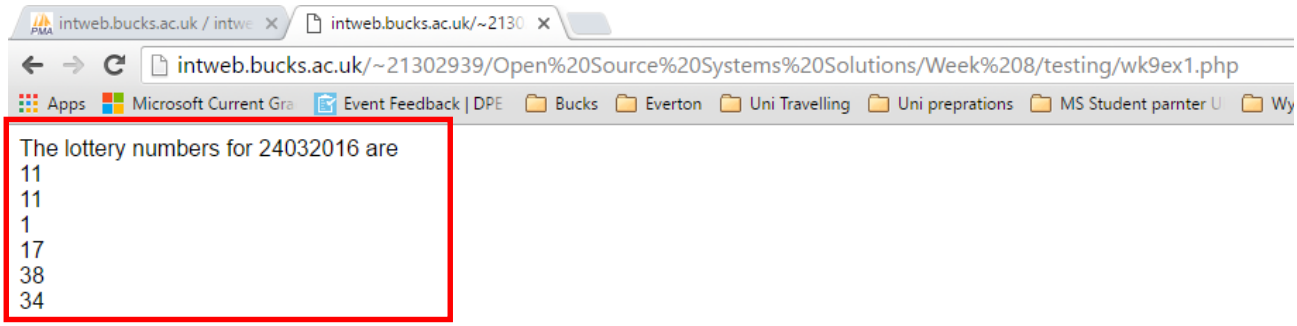
wk9ex3.php wk9ex1.php

```php
<?php       // start of script



    $lottodate = date("dmY");          // Delcare variables
    echo "The lottery numbers for $lottodate are ";           // print out the numbers for a ceterian date
    for($n=1;$n<7;$n++){
       $number[$n] = rand(1,49);                  // genrete a random order of numbers
       echo "<br/> $number[$n]";                  // print out the numbers in a random order
    }
    // end of script
?>
```

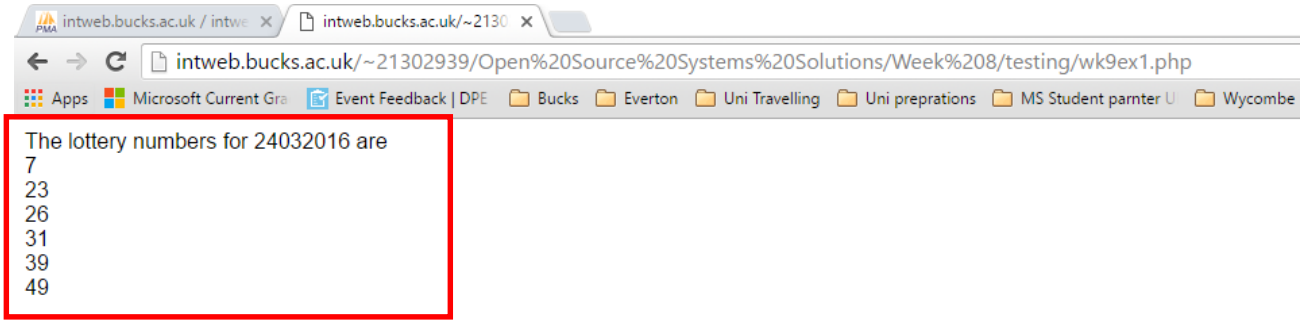
Here is the source code for random lottery numbers script for dates the word rand will generate the numbers in a random order each time

See screen shots of outputs below

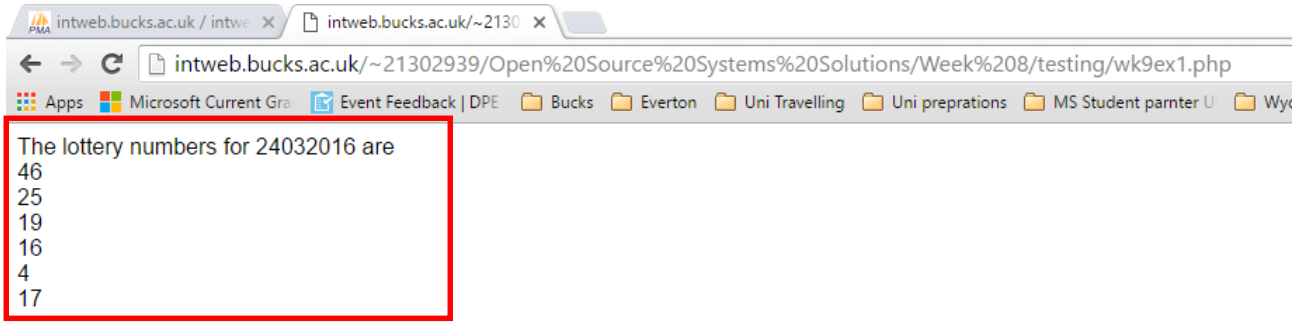
Sample Outputs



Here is one output of a draw of lottery numbers for a particular day which was the 24th March



Here is another output of a draw of lottery numbers for a particular day which was the 24th March



There is a piece of code in the php script above that is generating random numbers each time the script loads, this is called rand and each time the script re loads and boots up it generates the lotto numbers 1 – 46 in a different order

E.g.

2

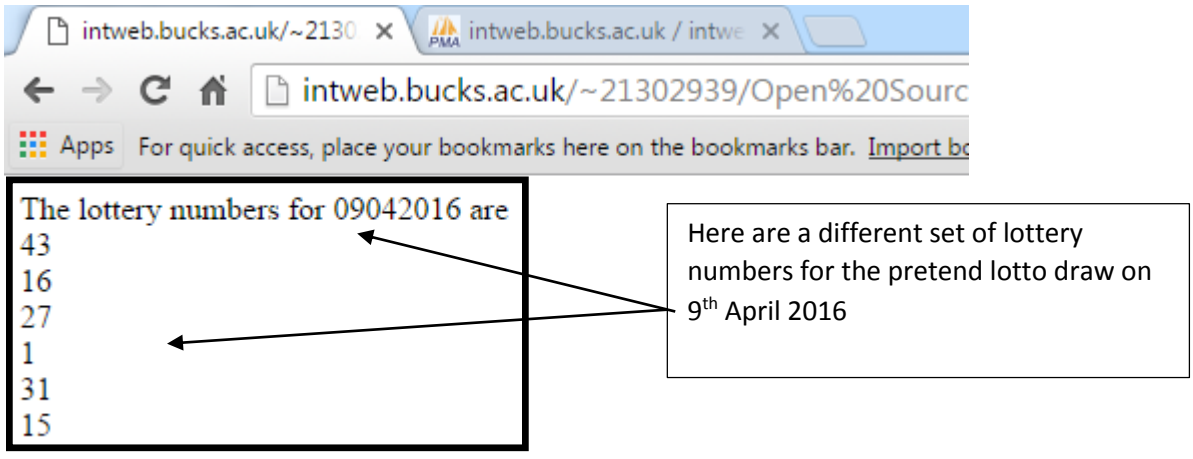
4

15

20

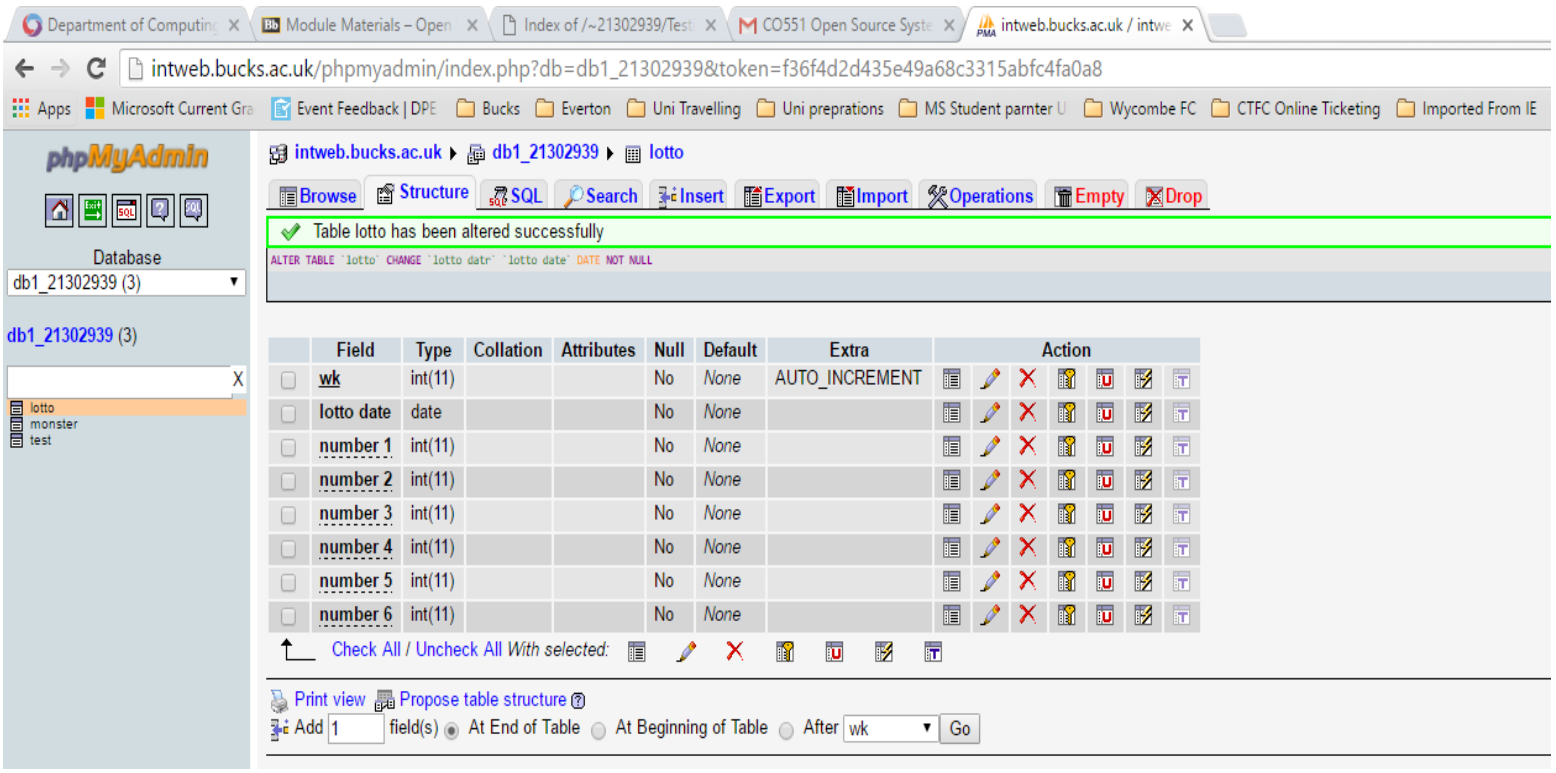
29

46



Week 8 Exercise 2 – Creation of lotto table in db1_21302939 using the int web server php my admin portal

Database creation



Exercise explanation

All I had to do in this exercise was create a lotto based structured table inside my php database system which in case you have forgotten is **db1_21302939**. I had 2 ways of doing this these were using the

- Command line PUTTY terminal program using the my sql prompt
- php my admin on the intweb.bucks web server

For simple and time constraint reasons I chose to do it through php my admin on the bucks' int web server. The main benefit of using this was, it was a graphical user interface so I could see what I was doing a little better

For example creating the table lotto's fields such as wk and lastly setting the primary key was just by hitting a check box button. If I did in the PUTTY program I would have to tell what field in code I wanted the primary key.

So doing it using the graphical php my admin portal saved me a lot of time.

Source Code

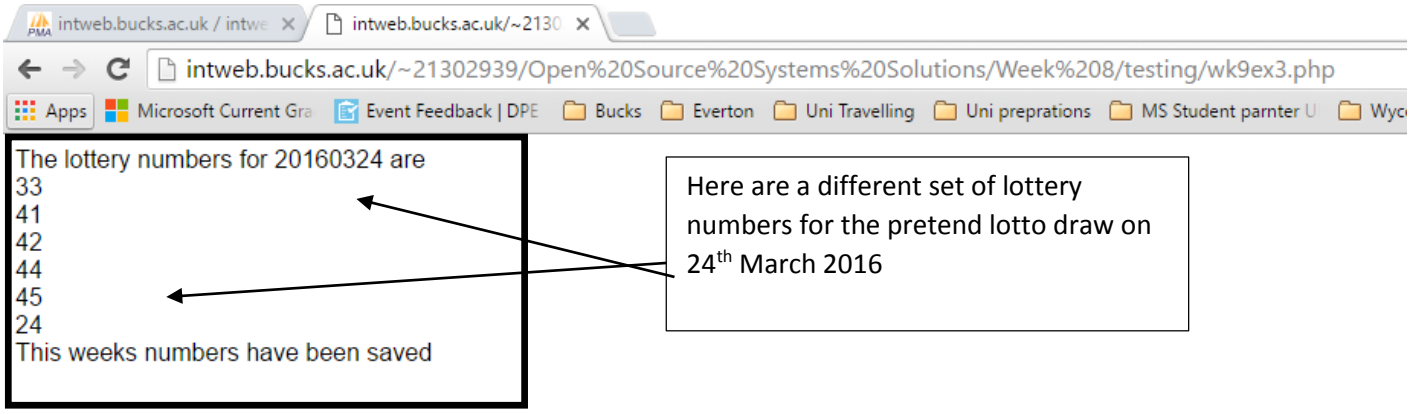
Here the source code for week 8's exercise 3 this has been commented to help you understand what each bit of the php script does.

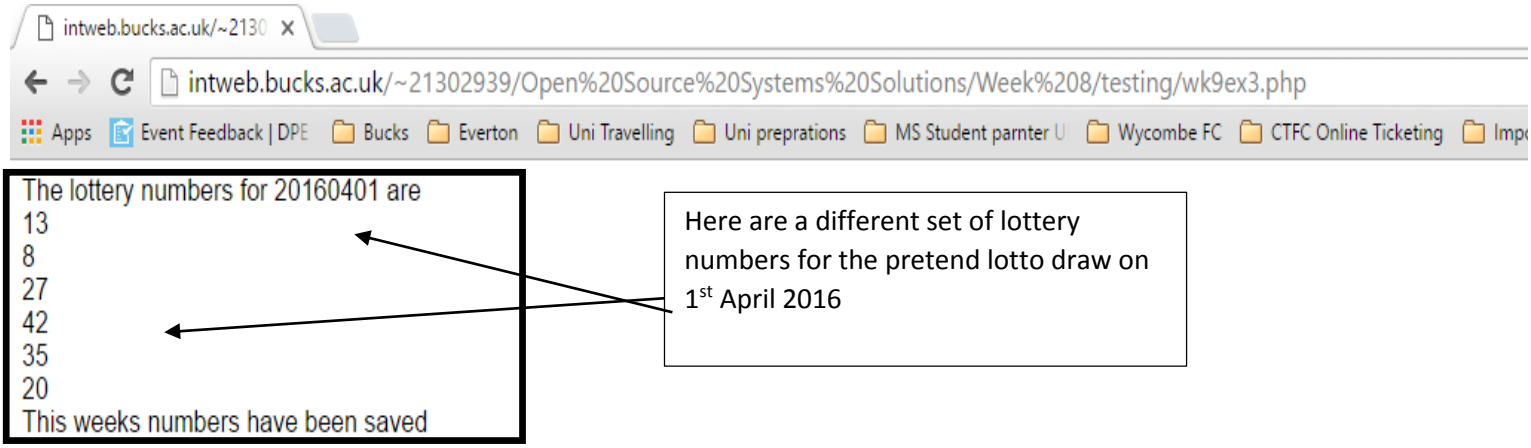
This script basically is writing a random 7 lotto numbers to a database table named lotto and storing them by date. E.g. 24th March the person played and 31st March the person played

```php
<?php             // start of php script


    $lottodate = date("Ymd");                          // declare lottodate variable and print out a date in american year month day format
    echo "The lottery numbers for $lottodate are ";    // print out the date of the lottery draw
    for($n=1;$n<7;$n++){                               // contiune to print out the lottery draw until it reaches number 7
       $number[$n] = rand(1,49);                       //
       echo "<br/> $number[$n]";                       // print out the numbers with new line breaks between each one
    }
    $conn = mysql_connect("localhost",21302939,mysqluser);       // connect to the localhost [intweb.bucks server] and select the user 21302939
    mysql_select_db(db1_21302939,$conn);                         // select the db1_21302939 database

    $sql = "insert into lotto (lottodate,number1,number2,";          // insert all the lottery data to the lotto table in db1_21302939
    $sql = $sql . "number3,number4,number5,number6)";
    $sql = $sql . " values ($lottodate,$number[1],$number[2],";
    $sql = $sql . "$number[3],$number[4],$number[5],$number[6]);";

    $result = mysql_query($sql,$conn);
    echo "<br/>This weeks numbers have been saved";                  // print out a message saying the numbers have been saved to the database

    // end of php script

?>
```

Script outputs

On The next page are the sample outputs for lotto draws and confirmation they have been saved

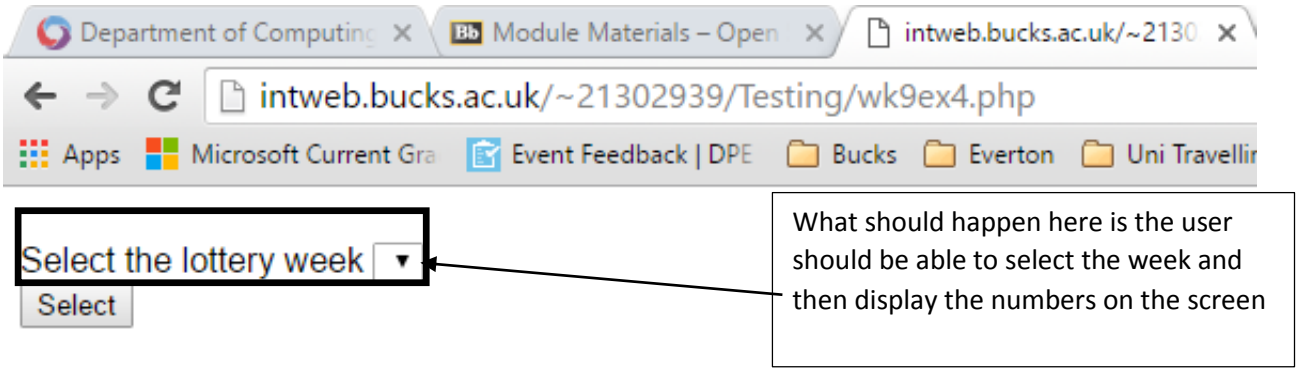

intweb.bucks.ac.uk/~21302939/Open%20Source%20Systems%20Solutions/Week%208/testing/wk9ex3.php
Apps
Microsoft Current Gra
Event Feedback | DPE
Bucks
Everton
Uni Travelling
Uni preprations
MS Student parnter U
The lottery numbers for 20160324 are
33
41
42
44
45
24
This weeks numbers have been saved
Here are a different set of lottery numbers for the pretend lotto draw on 24th March 2016


intweb.bucks.ac.uk/~21302939/Open%20Source%20Systems%20Solutions/Week%208/testing/wk9ex3.php
Apps
Event Feedback | DPE
Bucks
Everton
Uni Travelling
Uni preprations
MS Student parnter U
Wycombe FC
CTFC Online Ticketing
The lottery numbers for 20160401 are
13
8
27
42
35
20
This weeks numbers have been saved
Here are a different set of lottery numbers for the pretend lotto draw on 1st April 2016

Source Code

```php
<?php
            // start of script

 $conn = mysql_connect("localhost", 21302939,mysqluser);            // connect to my area of my sql
       mysql_select_db(db1_21302939,$conn);                         // select the correct database
       $sql = "select * from lotto;";                               // select all the feilds the correct table within the lotto table
       $result = mysql_query($sql,$conn);

       echo "<form action='$_SESSION[PHP_SELF]' method='post' >";    // post data from  a php session self variable capture
       echo "<br/>Select the lottery week ";                        // print out on screen select the lottery week
       echo "<select name='selweek' >";                             // print out on screen select the lottery week
       while($row = mysql_fetch_array($result)) {                   // define a while loop in a fetch array
      echo "<option value='$row[wk]'>$row[wk]</option>";            // pick an option to select what lottery week a user wants to view
       }
       echo "</select><br/>";
       echo "<input type='submit' value='Select' />";               // print out a submit button to select the data
       echo "</form>";


       // end of script
?>
```

Output



What is happening here is the lotto weeks should be selected from a drop down combo box the user then selects it and presses the select button to display the saved numbers **e.g. 2 4 15 20 29 46**

Not attempted