

Module1: Introduction and Basics

1. Display the message ‘Welcome to the PHP Training’ on the Web Page

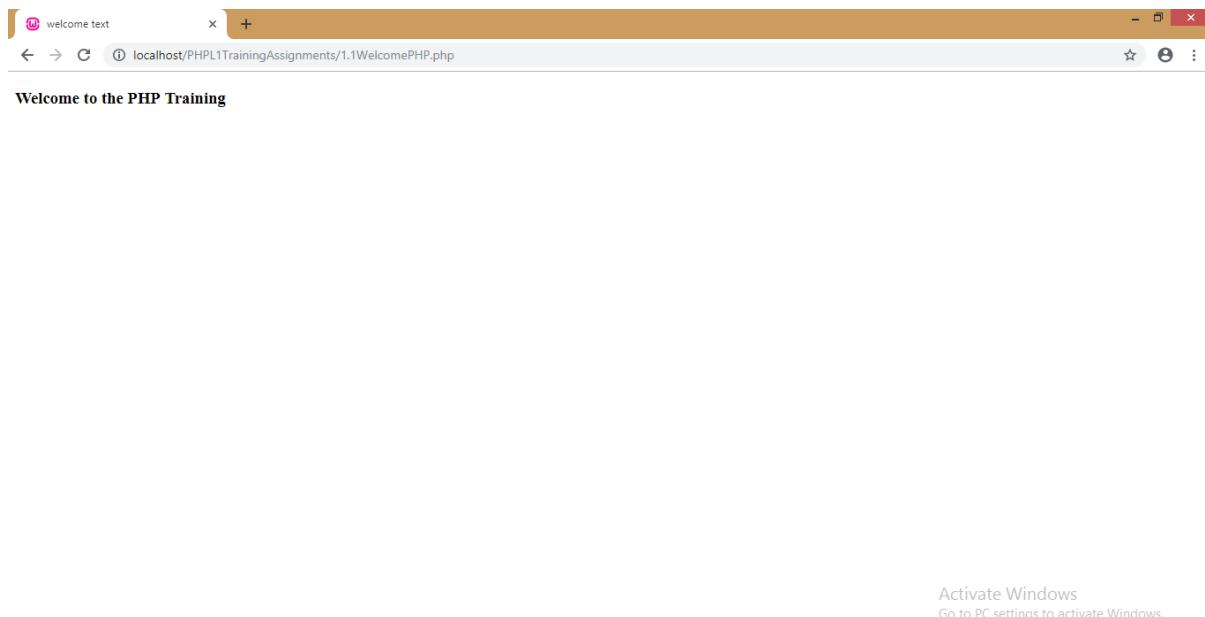
Code editor

The screenshot shows the Brackets code editor interface. The file being edited is "1.1WelcomePHP.php". The code is as follows:

```
<!DOCTYPE html>
<html>
    <head>
        <?php /*1. Display the message 'Welcome to the PHP Training' on the
Web Page */ ?>
        <title>welcome text</title>
    </head>
    <body>
        <?php
echo '<h3>Welcome to the PHP Training<h3>';
        ?>
        </body>
    </html>
```

The code includes a multi-line comment explaining the purpose of the page. The Brackets interface shows a sidebar with project files like "1.2Wel" and "1.1Wel", and a status bar at the bottom.

Browser



2. Create two variables ‘firstName’ and ‘lastName’ and assign some sample values into it. Display a Welcome message followed by the firstName and lastName.

Code editor

The screenshot shows the Brackets IDE interface with the file '1.2WelcomeFirstname.php' open. The code is as follows:

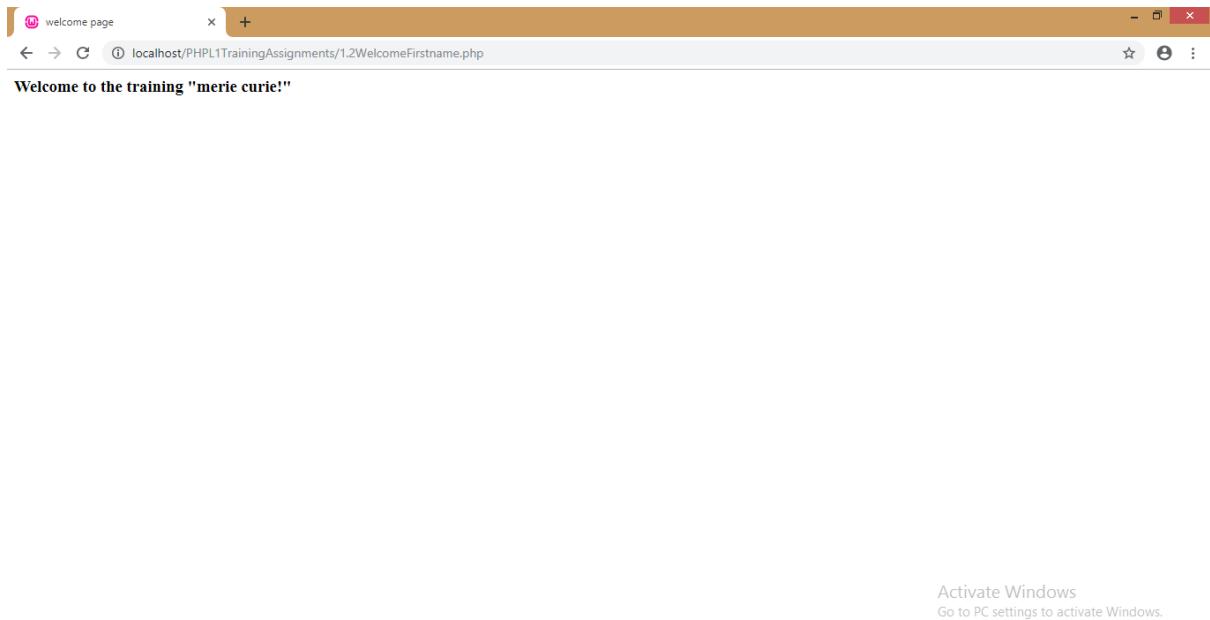
```
1 <html>
2
3 <head>
4     <?php /*Create two variables 'firstName' and 'lastName' and assign
      some sample values into it. Display a Welcome message followed by
      the firstName and lastName.
5     Eg: Welcome to the training Steve Martin */ ?>
6     <title>welcome page</title>
7 </head>
8
9 <body>
10    <?php
11    $firstName=" \\"merie ";
12    $lastName=" curie!\\" ";
13
14 echo "<h3> Welcome to the training $firstName $lastName <h3>";
15
16    ?>
17
18 </body>
19
```

Line 18, Column 8 — 21 Lines

Activate Windows
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INS | UTF-8 | PHP | Spaces: 4

Browser



Create two constants: MINMARKS=0 and MAXMARKS=100 and display the same. Towards the end of the program, try setting /changing the value of MINMARKS=1 and then try to display it.

Code editor

The screenshot shows the Brackets IDE interface with the file '1.4Constants.php' open. The code defines two constants, MINMARKS and MAXMARKS, and prints them to the browser. The code is as follows:

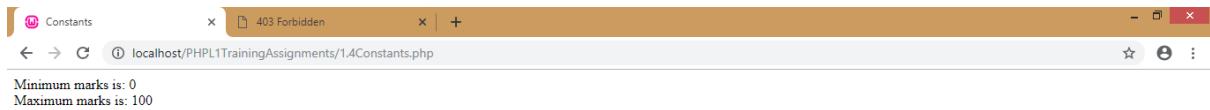
```
1 <html>
2
3 <head>
4     <?php /*C4. Create two constants: MINMARKS=0 and MAXMARKS=100 and
5         display the same. Towards the end of the program, try setting
6         /changing the value of MINMARKS=1 and then try to display it. */ ?>
7     <title>Constants</title>
8 </head>
9
10 <body>
11     <?php
12     define("MINMARKS",0);
13     define("MAXMARKS",100);
14     echo "Minimum marks is: ". MINMARKS;
15     echo "<br> Maximum marks is: ". MAXMARKS;
16 //define("MINMARKS",1);
17 // echo "<br> Minimum marks is: ". MINMARKS;
18 </body>
19
```

Line 15, Column 6 -- 21 Lines

Activate Windows
Go to PC settings to activate Windows.

INS | UTF-8 | PHP | Spaces: 4

Browser



Activate Windows
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Code editor

The screenshot shows the Brackets IDE interface with a file named '1.4Constants.php' open. The code defines two constants, MINMARKS and MAXMARKS, both set to 0 initially. It then changes the value of MINMARKS to 1 and prints both values. The code is as follows:

```

1 <html>
2
3 <head>
4     <?php /*C4. Create two constants: MINMARKS=0 and MAXMARKS=100 and
       display the same. Towards the end of the program, try setting
       /changing the value of MINMARKS=1 and then try to display it. */ ?>
5         <title>Constants</title>
6     </head>
7
8 <body>
9     <?php
10    define("MINMARKS",0);
11    define("MAXMARKS",100);
12    echo "Minimum marks is: ". MINMARKS;
13    echo "<br> Maximum marks is: ". MAXMARKS;
14    define("MINMARKS",1);
15    echo "<br> Minimum marks is: ". MINMARKS;
16
17
18 </body>
19

```

Line 14, Column 1 — 21 Lines

Activate Windows
Go to PC settings to activate Windows.

INS | UTF-8 | PHP | Spaces: 4

Browser

The screenshot shows a browser window with the URL 'localhost/PHP1TrainingAssignments/1.4Constants.php'. The page displays the output of the PHP code, which includes a notice about a constant being defined twice and the printed values of the constants.

Minimum marks is: 0
Maximum marks is: 100

(!) Notice: Constant MINMARKS already defined in C:\wamp64\www\PHPL1TrainingAssignments\1.4Constants.php on line 14

Call Stack				
#	Time	Memory	Function	Location
1	0.0005	405744	{main}()	...1.4Constants.php:0
2	0.0006	405808	define()	...1.4Constants.php:14

Minimum marks is: 0

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5. Have two variables 'sciencemarks' and 'mathsmarks' and assign some sample marks (number) onto it. If sciencemarks is greater than mathsmarks, display the message 'Science is highest' else 'Maths is highest'. Do it using the **ternary** operator.

The screenshot shows the Brackets IDE interface with the file '1.5TernaryOperator.php' open. The code uses the ternary operator to determine the highest of two variables, \$sciencemarks and \$mathsmarks, and prints the result. The browser preview shows the output: Science marks = 81, Maths marks = 41, and 'Science is highest'.

```
<?php /*5. Have two variables 'sciencemarks' and 'mathsmarks' and assign some sample marks (number) onto it. If sciencemarks is greater than mathsmarks, display the message 'Science is highest', else 'Maths is highest'. Do it using the ternary operator. */ ?>
<title> Using the ternary operator</title>
</head>
<body>
<?php
$sciencemarks=rand(1,100);
$mathsmarks=rand(1,100);
echo" <h3> Science marks = $sciencemarks <br> Maths marks
=$mathsmarks <h3>";
echo ($sciencemarks > $mathsmarks ?<h3>'Science is highest'<h3>" : "
<h3>'Maths is highest'<h3>");
?>
</body>
|
</html>

```

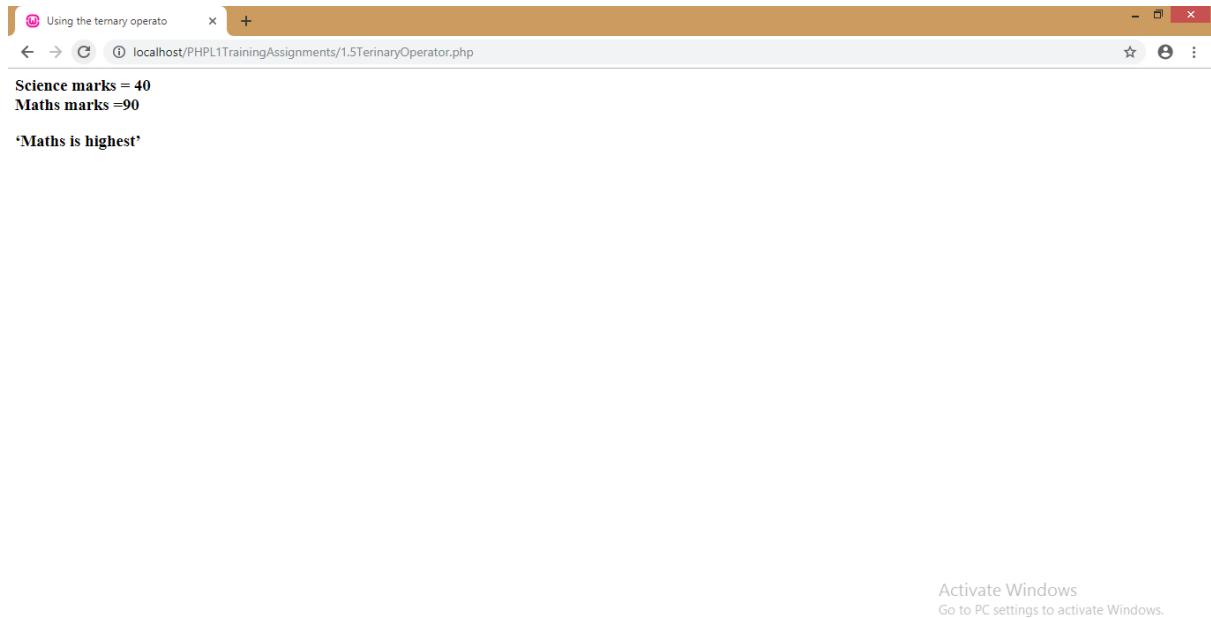
Activate Windows
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INS UTF-8 PHP Spaces: 4

The browser window displays the output of the PHP script. It shows the values of \$sciencemarks and \$mathsmarks, and the resulting message indicating that 'Science is highest'.

Science marks = 81
Maths marks = 41
'Science is highest'

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Activate Windows
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Module2: PHP Strings

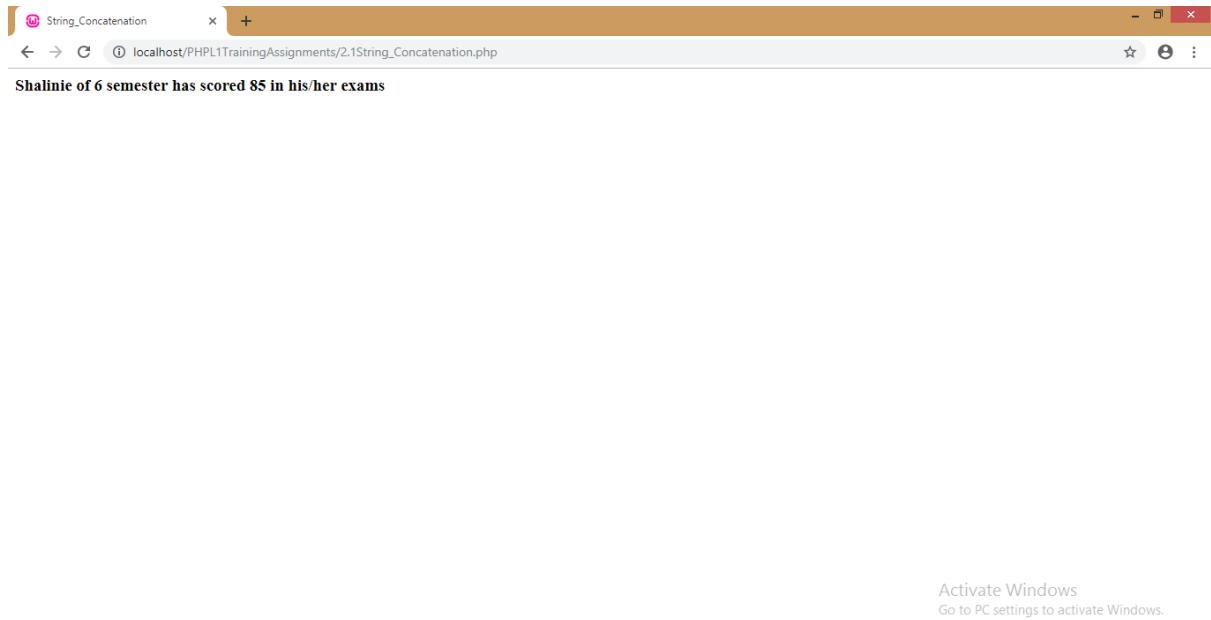
1. Have three variables 'Name' that contains the name of the student, 'Semester' that contains the semester number that the student is in and 'Marks' that contains his/her marks.
Now display the output which looks like "<Name> of <Semester> Semester has scored <Marks> in his/her exams'.
(Eg: Roger of 3 semester has scored 88 in his/her exams)

The screenshot shows the Brackets IDE interface. The file being edited is '2.1String_Concatenation.php' located in the 'PHPL1TrainingAssignments' folder. The code is a PHP script that generates an HTML page. It defines an array of student names, a semester number, and marks, then prints an HTML heading with the student's name and marks. The code is as follows:

```
1 <html>
2
3 <head>
4     <?php /*1. Have three variables 'Name' that contains the name of the student,
5      'Semester' that contains the semester number that the student is in and 'Marks'
6      that contains his/her marks. Now display the output which looks like "<Name> of
7      <Semester> Semester has scored <Marks> in his/her exams". (Eg: Roger of 3 semester
8      has scored 88 in his/her exams) */ ?>
9         <title>String_Concatenation</title>
10    </head>
11   <body>
12       <?php
13           $Name=array('Suresh','Mahesh','Edwin','Sailu','Ramya','Shalinie','Gandhi','Ashok')
14           ;// name of the student
15           $Semester=rand(1,8); // semester number that the student is in
16           $Marks=rand(1,100); // marks secured
17           $Name= $Name[rand(0, count($Name) -1)];
18           echo " <h3> $Name of $Semester semester has scored $Marks in his/her exams<h3>";
19
20       ?>
21   </body>
22
23 </html>
```

The status bar at the bottom indicates 'Line 20, Column 1 — 20 Lines'. The bottom right corner shows activation status: 'Activate Windows' and 'Go to PC settings to activate Windows.' Below the browser window, there is a message: 'Shalinie of 6 semester has scored 85 in his/her exams'.

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Activate Windows
Go to PC settings to activate Windows.

2. Check whether String interpolation happens within “ ” (double quotes) and ‘ ’ (single quotes)

```
File Edit Find View Navigate Debug Help Emmet
```

```
Working Files
2.1String_Concatenation.p
2.2String_Interpolation.p
```

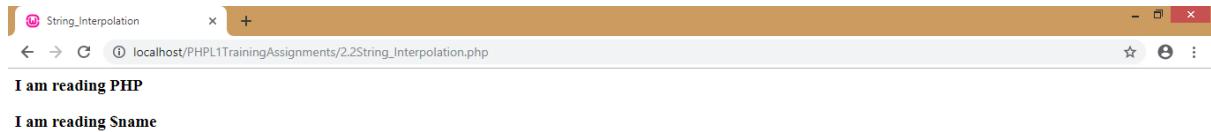
```
2.2String_Interpolation.php (PHPL1TrainingAssignments) - Brackets
```

```
1 <html>
2
3 <head>
4     <?php /*Check whether String interpolation happens within " " (double quotes) and
5         ' ' (single quotes) */ ?>
6         <title>String_Interpolation</title>
7     </head>
8 <body>
9     <?php
10    //Variable interpolation:-Variable interpolation is adding variables in between a
11    //string data. PHP will parse the interpolated variables and replace the variable with
12    //its value while processing the string data
13    $name = "PHP";
14    echo "<h3> I am reading $name <h3>"; // double quotes or heredocs.
15    echo '<h3>I am reading $name <h3>'; // single quoted string or nowdocs,doesn't support
16    //variable parsing.
17
18
19 </body>
20 </html>
```

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Line 13, Column 34 — 20 Lines

INS UTF-8 PHP Spaces: 4



Activate Windows
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3. Try to display the output -- Sachin's 100th century within double quotes and within single quotes.

The screenshot shows the Brackets IDE interface. The file 2.3Quotes.php is open in the editor. The code is as follows:

```
1 <html>
2
3 <head>
4     <?php /*3. Try to display the output -- Sachin's 100th century within double
      quotes and within single quotes. */ ?>
5     <title>Quotes</title>
6 </head>
7
8 <body>
9     <?php
10
11    echo " -- Sachin's 100th century <br> "; // double quotes or heredocs.
12    echo ' -- Sachin's 100th century ' ; // single quoted string or nowdocs, doesn't support
      variable parsing.
13
14    ?>
15
16 </body>
17
18 </html>
```

The status bar at the bottom indicates "Line 10, Column 1 — 20 Lines".

The screenshot shows a browser window titled "Quotes" with the URL "localhost/PHPL1TrainingAssignments/2.3Quotes.php". The page content is:

```
-- Sachin's 100th century
-- Sachin's 100th century
```

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Activate Windows
Go to PC settings to activate Windows.

4. A variable 'company' has value 'Wipro Limited' in it. Find the length of string and display.

The screenshot shows the Brackets IDE interface. The top menu bar includes File, Edit, Find, View, Navigate, Debug, Help, and Emmet. The left sidebar lists 'Working Files' with files like 2.1String_Concatenation.php, 2.4StringLength.php, 2.3Quotes.php, 2.2String_Interpolation.php, and others under 'PHPL1TrainingAssignments'. The main editor area contains the following PHP code:

```
1 <html>
2
3 <head>
4     <?php /*4. A variable 'company' has value 'Wipro Limited' in it. Find the length
      of string and display. */ ?>
5         <title>strlen</title>
6     </head>
7
8 <body>
9     <?php
10    $company= "Wipro Limited";
11    $len=strlen($company);
12    $company= " <h2> 'Wipro Limited'<h2> ";
13    echo ($company);
14    echo ("length of string $len");
15    ?>
16
17 </body>
18
19 </html>
```

The status bar at the bottom indicates 'Line 20, Column 1 — 20 Lines'. Below the editor is a browser preview window titled 'strlen'. The address bar shows 'localhost/PHPL1TrainingAssignments/2.4StringLength.php'. The preview content displays the text 'Wipro Limited' and 'length of string 13'.

5. A variable 'fullname' contains the employee's full name with extra unnecessary spaces before the name and after the name. Remove the unnecessary spaces before and after the name and display it.

The screenshot shows the Brackets IDE interface. The file being edited is `2.5RemovignSpaces.php`. The code is as follows:

```

4     <?php /* A variable "fullname" contains the employee's full name with extra
5        unnecessary spaces before the name and after the name. Remove the unnecessary
6        spaces before and after the name and display it. */ ?>
7         <title>strlen</title>
8     </head>
9     <body>
10    <?php
11       $fullname_Str = " P . Bhuvan Chandra
12
13       ";
14       $fullname_Arr = str_split ($fullname_Str,1);
15       echo "stringWithSpaces $fullname_Str";
16       print "<br>";
17       echo "stringWithoutSpaces =" ;
18       foreach($fullname_Arr as $stringWithoutSpaces ){
19           if($stringWithoutSpaces!=" ")
20               echo"$stringWithoutSpaces";
21       }
22   ?>
23 </body>
24
25 </html>
26

```

The code uses `str_split` to split the string into an array, then loops through the array to print each element, effectively removing the spaces.

The screenshot shows a browser window with the URL `localhost/PHPL1TrainingAssignments/2.5RemovignSpaces.php`. The output is:

```

stringWithSpaces P . Bhuvan Chandra
stringWithoutSpaces =P.BhuvanChandra

```

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Activate Windows
Go to PC settings to activate Windows.

6. A variable called ‘name’ contains the value “Roger”. Convert it into lowercase. Another variable ‘city’ contains the value ‘Bangalore’ in it. Convert it into Uppercase. Print both variables.

The screenshot shows the Brackets IDE interface. The file 2.6Case_Conversion.php is open. The code is as follows:

```
1 <html>
2
3 <head>
4     <?php /*6. A variable called 'name' contains the value "Roger". Convert it into
lowercase. Another variable 'city' contains the value 'Bangalore' in it. Convert it
into Uppercase. Print both variables. */ ?>
5     <title>strlen</title>
6 </head>
7
8 <body>
9     <?php
10    $name="Roger <br>";
11    $city='Bangalore';
12    echo strtolower($name);
13    echo strtoupper($city);
14    ?>
15 </body>
16
17 </html>
```

The code uses PHP's `strtolower` and `strtoupper` functions to convert the string values of \$name and \$city respectively. The browser preview shows the output: roger
BANGALORE.

Activate Windows
Go to PC settings to activate Windows.

7. A string variable contains the values “**Ask not what your nation has done for you. Ask what you can do for your nation**”. Find for the occurrence of the substring ‘nation’ in it and replace with ‘country’. Also find out how many (count of) replacements were made.

The screenshot shows the Brackets IDE interface with the file "2.7Find&Replace.php" open. The code is a PHP script designed to find and replace substrings in a string variable. It uses the `stristr()` function to search for the word "nation" and replace it with "country". The code also counts the occurrences of "nation". The IDE's status bar at the bottom right shows "Line 12, Column 9 — 36 Lines".

```
1 <html>
2
3 <head>
4     <?php /*7. A string variable contains the values "Ask not what your nation has done for you. Ask what you can do for your nation". Find for the occurrence of the substring 'nation' in it and replace with 'country'. Also find out how many (count of) replacements were made.*? */
5         <title>strlen</title>
6     </head>
7
8 <body>
9     <?php
10    $variable="Ask not what your nation has done for you. Ask what you can do for your nation";
11    $fullname_Arr = str_split ($variable,1);
12    //print_r ($fullname_Arr);
13    $count=0;
14    for($i=0;$i<strlen($variable);$i++) {
15        if($fullname_Arr[$i]=="n" and $fullname_Arr[$i+1]=="a" and $fullname_Arr[$i+2]=="t" and $fullname_Arr[$i+3]=="i" and $fullname_Arr[$i+4]=="o" and $fullname_Arr[$i+5]=="n") {
16            $count++;
17
18            $fullname_Arr[$i]="c";
19            $fullname_Arr[$i+1]="o";
20            $fullname_Arr[$i+2]="u";
21            $fullname_Arr[$i+3]="r";
22            $fullname_Arr[$i+4]="e";
23            $fullname_Arr[$i+5]="n";
24            $fullname_Arr[$i+6]="#";
25            $fullname_Arr[$i+7]="#";
26        }
27        echo $fullname_Arr[$i];
28    }
29    //echo $count;
30    /* */
31    ?>
32    ?
33 </body>
34 </html>
```



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The screenshot shows the Brackets IDE interface with the file `2.7Find&Replace.php` open. The code performs a find-and-replace operation on a string variable containing the nation's name. It splits the string into an array, loops through it to find the word 'nation', and replaces it with 'country'. The modified string is then echoed back. The browser screenshot below shows the resulting page with the text "Ask not what your country has done for you. Ask what you can do for your country".

```

1 <html>
2
3 <head>
4   <?php /*7. A string variable contains the values "Ask not what your nation has done for you. Ask what you can do for your nation". Find for the occurrence of the substring 'nation' in it and replace with 'country'. Also find out how many (count of) replacements were made.*? */
5   <title>Find and Replace</title>
6   <style>
7     h3{color: orangered;
8       display: inline;}
9   </style>
10  </head>
11  <body>
12    <?php
13      $variable="Ask not what your nation has done for you. Ask what you can do for your nation";
14      $fullname_Arr = str_split ($variable,1);
15      //print_r ($fullname_Arr);
16      $count=0;
17      for($i=0;$i<strlen($variable);$i++){
18        if($fullname_Arr[$i]=="n" and $fullname_Arr[$i+1]=="a" and $fullname_Arr[$i+2]=="t" and $fullname_Arr[$i+3]=="i" and $fullname_Arr[$i+4]=="o"
19          and $fullname_Arr[$i+5]=="n"){
20          $fullname_Arr[$i]="c";
21          $fullname_Arr[$i+1]="o";
22          $fullname_Arr[$i+2]="u";
23          $fullname_Arr[$i+3]="n";
24          $fullname_Arr[$i+4]="t";
25          $fullname_Arr[$i+5]="r";
26        }
27        $fullname_Arr[$i+6]= "y" ;
28        $fullname_Arr[$i+7]= " ";
29      }
30      echo "<h3>$fullname_Arr[$i]</h3>";
31    }
32  ?>
33  </body>
34  </html>
35
36
37

```



Activate Windows
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Module3: PHP Arrays

1. Create an array of 5 country names and its capital and display all. Also display the capital of only one selected country

3.1Associative_arrayofcountries.php (PHPL1TrainingAssignments) - Brackets

```

1 v <html>
2
3 v <head>
4     <?php /*1. Create an array of 5 country names and its capital and display all. Also display the capital of
only one selected country.*/ ?>
5         <title>Associative arrays</title>
6 v <style>
7
8     h3{color: darkslateblue;
9         display: inline;}
10    h4{color: hotpink;
11        display: inline;}
12 v p{
13     color: green;
14 }
15
16     </style>
17 </head>
18
19 v <body>
20     <?php
21     $country_capital_Array = array('Afghanistan' => 'Kabul',
22     'Albania' => 'Tirana (Tirane)',
23     'Algeria' => 'Algiers',
24     'Andorra' => 'Andorra la Vella',
25     'Angola' => 'Luanda',
26     'Antigua and Barbuda' => 'Saint Johns',
27     'Argentina' => 'Buenos Aires',
28     'Armenia' => 'Yerevan',
29     'Australia' => 'Canberra',
30     'Austria' => 'Vienna',
31     'Azerbaijan' => 'Baku',
32     'Bahamas' => 'Nassau',
33     'Bahrain' => 'Manama',
34     'Bangladesh' => 'Dhaka',
35     'Barbados' => 'Bridgetown',
36     'Belarus' => 'Minsk',
37     'Belgium' => 'Brussels'
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142
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144
Line 8, Column 28 — 249 Lines

```

INS UTF-8 PHP Spaces: 4

3.1Associative_arrayofcountries.php (PHPL1TrainingAssignments) - Brackets

```

100 'Italy' => 'Rome',
101 'Jamaica' => 'Kingston',
102 'Japan' => 'Tokyo',
103 'Jordan' => 'Amman',
104 'Kazakhstan' => 'Astana',
105 'Kenya' => 'Nairobi',
106 'Kiribati' => 'Tarawa Atoll',
107 'Kosovo' => 'Pristina',
108 'Kuwait' => 'Kuwait City',
109 'Kyrgyzstan' => 'Bishkek',
110 'Laos' => 'Vientiane',
111 'Latvia' => 'Riga',
112 'Lebanon' => 'Beirut',
113 'Lesotho' => 'Maseru',
114 'Liberia' => 'Monrovia',
115 'Libya' => 'Tripoli',
116 'Liechtenstein' => 'Vaduz',
117 'Lithuania' => 'Vilnius',
118 'Luxembourg' => 'Luxembourg',
119 'Macedonia' => 'Skopje',
120 'Madagascar' => 'Antananarivo',
121 'Malawi' => 'Lilongwe',
122 'Malaysia' => 'Kuala Lumpur',
123 'Maldives' => 'Male',
124 'Mali' => 'Bamako',
125 'Malta' => 'Valletta',
126 'Marshall Islands' => 'Majuro',
127 'Mauritania' => 'Nouakchott',
128 'Mauritius' => 'Port Louis',
129 'Mexico' => 'Mexico City',
130 'Moldova' => 'Chisinau',
131 'Monaco' => 'Monaco',
132 'Mongolia' => 'Ulaanbaatar',
133 'Montenegro' => 'Podgorica',
134 'Morocco' => 'Rabat',
135 'Mozambique' => 'Maputo',
136 'Myanmar (Burma)' => 'Nay Pyi Taw',
137 'Namibia' => 'Windhoek',
138 'Nauru' => 'No official capital',
139
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144
Line 8, Column 28 — 249 Lines

```

INS UTF-8 PHP Spaces: 4

3.1Associative_arrayofcountries.php (PHPL1TrainingAssignments) - Brackets

```

File Edit Find View Navigate Debug Help Emmet
Working Files
2.1String_Concatenation.php
2.4StringLength.php
2.3Quotes.php
2.5String_Interpolation.php
3.1Associative_arrayofcountries.php
2.5RemoveSpaces.php
style.css

PHPL1TrainingAssignments +
1.1WelcomePHP.php
1.2WelcomeFirstname.php
1.4Constants.php
1.5TernaryOperator.php
2.1String_Concatenation.php
2.2String_Interpolation.php
2.3Quotes.php
2.4StringLength.php
2.5RemoveSpaces.php
2.6Case_Conversion.php
2.7FindReplace.php
3.1Associative_arrayofcountries.php
debug.log
php-11-training-assignments.docx
php-11-training-assignments_Screenshots.docx
style.css

212 'Uruguay' => 'Montevideo',
213 'Uzbekistan' => 'Tashkent',
214 'Vanuatu' => 'Port Vila',
215 'Vatican City' => 'Vatican City',
216 'Venezuela' => 'Caracas',
217 'Vietnam' => 'Hanoi',
218 'Wales' => 'Cardiff',
219 'Yemen' => 'Sanaa',
220 'Zambia' => 'Lusaka',
221 'Zimbabwe' => 'Harare',
222 );
223
224 echo "<h3> All values by for each loop: </h3>";
225 $i=1;
226 foreach($country_capital_Araay as $cc){
227
228 echo "<br>".$i.") ".$cc;
229
230 $i++;
231 }
232
233 echo "<h3><br>All values by print_r: </h3>";
234 ?> <p> <?php print_r($country_capital_Araay); ?> </p> <?php
235
236 echo "<h3> Selected value is : </h3>";
237
238 ?> <?php
239
240
241 $val = array_rand($country_capital_Araay);
242 echo "<br> Capital of "<h4> $val </h4>" is = ";
243 echo "<h4> $country_capital_Araay[$val] </h4>" ;
244 ?>
245 </body>
246 </html>
247
248
249

```

Line 8, Column 28 — 249 Lines

INS UTF-8 PHP Spaces: 4

Associative array

localhost/PHPL1TrainingAssignments/3.1Associative_arrayofcountries.php

All values by each loop:

- 1) Kabul
- 2) Tirana (Tirane)
- 3) Algiers
- 4) Andorra la Vella
- 5) Luanda
- 6) Saint Johns
- 7) Buenos Aires
- 8) Yerevan
- 9) Canberra
- 10) Vienna
- 11) Baku
- 12) Nassau
- 13) Manama
- 14) Dhaka
- 15) Bridgetown
- 16) Minsk
- 17) Brussels
- 18) Belmopan
- 19) Porto Novo
- 20) Thimphu
- 21) La Paz
- 22) Sarajevo
- 23) Gaborone
- 24) Brasilia
- 25) Bandar Seri Begawan
- 26) Sofia
- 27) Ouagadougou
- 28) Bujumbura
- 29) Phnom Penh
- 30) Yaounde
- 31) Ottawa
- 32) Praia
- 33) Bangui
- 34) NDjamena
- 35) Santiago

Associative array

localhost/PHPL1TrainingAssignments/3.1Associative_arrayofcountries.php

```

196) Caracas
197) Hanoi
198) Cardiff
199) Sanaa
200) Lusaka
201) Harare
All values by print_r:

Array ( [Afghanistan] => Kabul [Albania] => Tirana [Tirane] [Algeria] => Algiers [Andorra] => Andorra la Vella [Angola] => Luanda [Antigua and Barbuda] => Saint Johns [Argentina] => Buenos Aires [Armenia] => Yerevan [Australia] => Canberra [Austria] => Vienna [Azerbaijan] => Baku [Bahamas] => Nassau [Bahrain] => Manama [Bangladesh] => Dhaka [Barbados] => Bridgetown [Belarus] => Minsk [Belgium] => Brussels [Belize] => Belmopan [Benin] => Porto Novo [Bhutan] => Thimphu [Bolivia] => La Paz [BosniaHerzegovina] => Sarajevo [Botswana] => Gaborone [Brazil] => Brasilia [Brunei] => Bandar Seri Begawan [Bulgaria] => Sofia [Burkina Faso] => Ouagadougou [Burundi] => Bujumbura [Cambodia] => Phnom Penh [Cameroon] => Yaounde [Canada] => Ottawa [Cape Verde] => Praia [Central African Republic] => Bangui [Chad] => NDjamena [Chile] => Santiago [China] => Beijing [Colombia] => Bogota [Comoros] => Moroni [Congo, Democratic Republic of the] => Kinshasa [Congo, Republic of the] => Brazzaville [Cost Rica] => San Jose [Cote d'Ivoire] => Yamoussoukro [Croatia] => Zagreb [Cuba] => Havana [Cyprus] => Nicosia [Czech Republic] => Prague [Denmark] => Copenhagen [Djibouti] => Djibouti [Dominica] => Roseau [Dominican Republic] => Santo Domingo [East Timor] => Dili [Ecuador] => Quito [Egypt] => Cairo [El Salvador] => San Salvador [England] => London [Equatorial Guinea] => Malabo [Eritrea] => Asmara [Estonia] => Tallinn [Ethiopia] => Addis Ababa [Federated States of Micronesia] => Palikir [Fiji] => Suva [Finland] => Helsinki [France] => Paris [French Guiana] => Cayenne [Gabon] => Libreville [Gambia] => Bissau [Guyana] => Georgetown [Haiti] => Port au Prince [Honduras] => Tegucigalpa [Hungary] => Budapest [Iceland] => Reykjavik [India] => Guatemala City [Guinea] => Conakry [Guinea-Bissau] => Bissau [Guyana] => Georgetown [Haiti] => Port au Prince [Honduras] => Tegucigalpa [Hungary] => Budapest [Iceland] => Reykjavik [India] => New Delhi [Indonesia] => Jakarta [Iran] => Tehran [Iraq] => Baghdad [Ireland] => Dublin [Israel] => Tel Aviv [Italy] => Rome [Jamaica] => Kingston [Japan] => Tokyo [Jordan] => Amman [Kazakhstan] => Astana [Kenya] => Nairobi [Kiribati] => Tarawa Atoll [Kosovo] => Pristina [Kuwait] => Kuwait City [Kyrgyzstan] => Riga [Lebanon] => Beirut [Lesotho] => Maseru [Libera] => Monrovia [Libya] => Tripoli [Liechtenstein] => Vaduz [Lithuania] => Vilnius [Luxembourg] => Luxembourg [Macedonia] => Skopje [Madagascar] => Antananarivo [Malawi] => Lilongwe [Malaysia] => Kuala Lumpur [Maldives] => Male [Malta] => Bamaiko [Malta] => Valletta [Marshall Islands] => Majuro [Mauritania] => Nouakchott [Mauritius] => Port Louis [Mexico] => Mexico City [Moldova] => Chisinau [Monaco] => Monaco [Mongolia] => Ulaanbaatar [Montenegro] => Podgorica [Morocco] => Rabat [Mozambique] => Maputo [Myanmar] => Nay Pyi Taw [Namibia] => Windhoek [Nauru] => No official capital [Nepal] => Kathmandu [Netherlands] => Amsterdam [New Zealand] => Wellington [Nicaragua] => Managua [Niger] => Niamey [Nigeria] => Abuja [North Korea] => Pyongyang [Northern Ireland] => Belfast [Norway] => Oslo [Oman] => Muscat [Pakistan] => Islamabad [Palau] => Melekeok [Panama] => Panama City [Papua New Guinea] => Port Moresby [Paraguay] => Asuncion [Peru] => Lima [Philippines] => Manila [Poland] => Warsaw [Portugal] => Lisbon [Qatar] => Doha [Romania] => Bucharest [Russia] => Moscow [Rwanda] => Kigali [Saint Kitts and Nevis] => Basseterre [Saint Lucia] => Castries [Saint Vincent and the Grenadines] => Kingstown [Samoa] => Apia [San Marino] => San Marino [Saudi Arabia] => Riyadh [Scotland] => Edinburgh [Senegal] => Dakar [Serbia] => Belgrade [Seychelles] => Victoria [Sierra Leone] => Freetown [Singapore] => Singapore [Slovakia] => Bratislava [Slovenia] => Ljubljana [Solomon Islands] => Honiara [Somalia] => Mogadishu [South Africa] => Pretoria [South Korea] => Seoul [South Sudan] => Juba [Spain] => Madrid [Sri Lanka] => Colombo [Sudan] => Khartoum [Suriname] => Paramaribo [Swaziland] => Mbabane [Sweden] => Stockholm [Switzerland] => Bern [Syria] => Damascus [Taiwan] => Taipei [Tajikistan] => Dushanbe [Tanzania] => Dodoma [Thailand] => Bangkok [Togo] => Lome [Tonga] => Nukualofa [TrinidadTobago] => Port of Spain [Tunisia] => Tunis [Turkey] => Ankara [Turkmenistan] => Ashgabat [Tuvalu] => Funafuti [Uganda] => Kampala [Ukraine] => Kiev [United Arab Emirates] => Abu Dhabi [United Kingdom] => London [United States] => Washington D.C. [Uruguay] => Montevideo [Uzbekistan] => Tashkent [Vanuatu] => Port Vila [Vatican City] => Vatican City [Venezuela] => Caracas [Vietnam] => Hanoi [Wales] => Cardiff [Yemen] => Sanaa [Zambia] => Lusaka [Zimbabwe] => Harare )

```

Selected value is :
Capital of Sri Lanka is = Colombo

3.1Associative_arrayofcountries.php (PHPL1TrainingAssignments) - Brackets

File Edit Find View Navigate Debug Help Emmet

Working Files

```

1 v <html>
2
3 v <head>
4     <?php /*1. Create an array of 5 country names and its capital and display all. Also display the capital of
only one selected country.*/ ?>
5         <title>Associative array</title>
6 v <style>
7
8     h3{color: darkslateblue;
9         display: inline;}
10    h4{color: hotpink;
11        display: inline;}
12 v p{
13     color: green;
14 }
15
16 </style>
17 </head>
18
19 v <body>
20     <?php
21 $country_capital_Araay=array('Afghanistan'=>'Kabul',
22 'Australia'=>'Canberra',
23 'Austria'=>'Vienna',
24 'Chile'=>'Santiago',
25 'China'=>'Beijing',
26 'India'=>'New Delhi',
27 );
28
29     echo "<h3> All values by for each loop: </h3>";
30     $i=1;
31 v     foreach($country_capital_Araay as $cc){
32
33         echo "<br>".$i.") ".$cc;
34         $i++;
35
36     }
37

```

Line 33, Column 37 – 53 Lines

INS UTF-8 PHP Spaces: 4

File Edit Find View Navigate Debug Help Emmet

Working Files

- 2.1String_Concatenation.php
- 2.4StringLength.php
- 2.3Quotes.php
- 2.2String_Interpolation.php
- 3.1Associative_arrayofcountries.php
- 2.5RemovignSpaces.php
- style.css

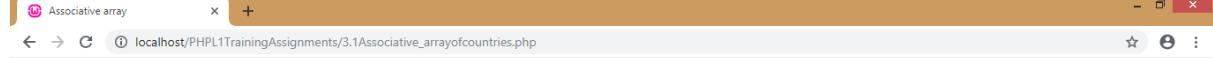
PHPL1TrainingAssignments

- 1.1WelcomePHP.php
- 1.2WelcomeFirstname.php
- 1.4Constants.php
- 1.5TernaryOperator.php
- 2.1String_Concatenation.php
- 2.2String_Interpolation.php
- 2.3Quotes.php
- 2.4StringLength.php
- 2.5RemovignSpaces.php
- 2.6Case_Conversion.php
- 2.7Find&Replace.php
- 3.1Associative_arrayofcountries.php
- debug.log
- php-l1-training-assignments.docx
- php-l1-training-assignments_Screenshots.docx
- style.css

```
17 </head>
18
19 <body>
20 <?php
21 $country_capital_Araay=array('Afghanistan'=>'Kabul',
22 'Australia'=>'Canberra',
23 'Austria'=>'Vienna',
24 'Chile'=>'Santiago',
25 'China'=>'Beijing',
26 'India'=>'New Delhi',
27 );
28
29 echo "<h3> All values by for each loop: </h3>";
30 $i=1;
31 foreach($country_capital_Araay as $cc){
32
33 echo "<br>".$i.") ".$cc;
34 $i++;
35
36 }
37
38 echo "<h3><br>All values by print_r: </h3>";
39 ?> <p> <?php print_r($country_capital_Araay); ?> </p> <?php
40
41 echo "<h3> Selected value is : </h3>";
42
43
44
45
46 $val = array_rand($country_capital_Araay);
47 echo "<br> Capital of "<h4> $val </h4> . " is = ";
48 echo "<h4> $country_capital_Araay[$val] </h4> ";
49 ?>
50 </body>
51
52 </html>
53
```

Line 33, Column 37 — 53 Lines

INS UTF-8 PHP Spaces: 4



All values by for each loop:
1) Kabul
2) Canberra
3) Vienna
4) Santiago
5) Beijing
6) New Delhi

All values by print_r:

```
Array ([Afghanistan] => Kabul [Australia] => Canberra [Austria] => Vienna [Chile] => Santiago [China] => Beijing [India] => New Delhi)
```

Selected value is :

The screenshot shows a browser window with the title "Associative array". The address bar indicates the URL is "localhost/PHPL1TrainingAssignments/3.1Associative_arrayofcountries.php". The page content displays the following text:

```
All values by for each loop:  
1) Kabul  
2) Canberra  
3) Vienna  
4) Santiago  
5) Beijing  
6) New Delhi  
All values by print_r:  
Array ( [Afghanistan] => Kabul [Australia] => Canberra [Austria] => Vienna [Chile] => Santiago [China] => Beijing [India] => New Delhi )  
Selected value is :  
Capital of Afghanistan is = Kabul
```

2. Create a numeric array that contains the names of 10 students. Display the first and the last student names.

```

3.2Numeric_arrayofStudents.php (PHPL1TrainingAssignments) - Brackets
File Edit Find View Navigate Debug Help Emmet
1 <html>
2
3 <head>
4     <?php /* Create a numeric array that contains the names of 10 students. Display the first and the last student
names */ ?>
5         <title>Numeric array</title>
6 <style>
7
8     h3{color: darkslateblue;
9         display: inline;}
10    h4{color: hotpink;
11        display: inline;}
12    p{
13        color: green;
14    }
15
16    </style>
17 </head>
18
19 <body>
20     <?php
21 $students=array('hari','sravya','chandra','Max','shakthi','janani');
22
23     echo "<h3> All values by for each loop: </h3>";
24     $i=1;
25     foreach($students as $s){
26
27         echo "<br>".$i.") ".$s;
28         $i++;
29     }
30     echo "<h3><br>All values by print_r: </h3>";
31
32 ?> <p> <?php print_r($students); ?> </p> <?php
33
34 echo "<h3> Selected value is : </h3>";
35
36
37 $val = array_rand($students); //OR
38 $val = rand(0,count($students)-1);
39 echo "<br> Student name in Index ".<h4> $val </h4>." is = ";
40 echo "<h4> $students[$val] </h4> ";
41
42 echo "<br>-----";
43 echo "<br> First Student name is : ";
44 echo "<h4> $students[0] </h4> ";
45 echo "<br>-----";
46 echo "<br> Last Student name is : ";
47 $index=count($students)-1;
48 echo "<h4> $students[$index] </h4> ";
49
50 </body>
51
52 </html>

```

Line 42, Column 59 — 53 Lines

3.2Numeric_arrayofStudents.php (PHPL1TrainingAssignments) - Brackets

File Edit Find View Navigate Debug Help Emmet

```

22
23     echo "<h3> All values by for each loop: </h3>";
24     $i=1;
25     foreach($students as $s){
26
27         echo "<br>".$i.") ".$s;
28         $i++;
29     }
30     echo "<h3><br>All values by print_r: </h3>";
31
32 ?> <p> <?php print_r($students); ?> </p> <?php
33
34 echo "<h3> Selected value is : </h3>";
35
36
37 $val = array_rand($students); //OR
38 $val = rand(0,count($students)-1);
39 echo "<br> Student name in Index ".<h4> $val </h4>." is = ";
40 echo "<h4> $students[$val] </h4> ";
41
42 echo "<br>-----";
43 echo "<br> First Student name is : ";
44 echo "<h4> $students[0] </h4> ";
45 echo "<br>-----";
46 echo "<br> Last Student name is : ";
47 $index=count($students)-1;
48 echo "<h4> $students[$index] </h4> ";
49
50 </body>
51
52 </html>

```

Line 42, Column 59 — 53 Lines

The screenshot shows a browser window with the title "Numeric array". The URL is "localhost/PHP1TrainingAssignments/3.2Numeric_arrayofStudents.php". The page content displays the following output:

```
All values by for each loop:  
1) hari  
2) sravya  
3) chandra  
4) Max  
5) shakthi  
6) janani  
All values by print_r:  
Array ( [0] => hari [1] => sravya [2] => chandra [3] => Max [4] => shakthi [5] => janani )  
Selected value is :  
Student name in Index 1 is = sravya  
-----  
First Student name is : hari  
-----  
Last Student name is : janani
```

3. Create a multidimensional array that contains the details like names of students and their respective class, phonenumbers and marks of 5 students. Display the entire array. Also display the phone number of only one student.

The image shows a development environment setup for a PHP assignment. At the top is the Brackets IDE interface, displaying the file `3.3MultiDimensionArray.php`. The code uses multidimensional arrays to store student names, class numbers, phone numbers, and marks, and prints them out. Below the IDE is a browser window showing the execution of the PHP file at `localhost/PHPL1TrainingAssignments/3.3MultiDimensionArray.php`. The browser output displays the student names (bhuvii, koochi, kohli, rahul, rohit) followed by their class numbers (9, 10, 1, 3, 4), and then their phone numbers (8992894976, 7637829742, 8473323677, 9472897847, 6396767227). A random mark (80) is also printed.

```

3.3MultiDimensionArray.php (PHPL1TrainingAssignments) - Brackets
File Edit Find View Navigate Debug Help Emmet
1
2
3
4
5
6 v <style>
7
8     </style>
9 </head>
10
11 v <body>
12     <?php
13         $name=array('bhuvii','koochi','kohli','rahul','rohit');
14         $class=array(9,10,1,3,4);
15         $pn=array(8992894976,7637829742,8473323677,9472897847,6396767227);
16         $marks=array(80,30,99,17,15);
17         $student_details= array($name,$class,$pn,$marks );
18
19     ?><p><?php // print_r($student_details); ?></p>
20
21     <?php
22 v         foreach($student_details as $sd){
23
24 v             foreach($sd as $s){
25                 echo "<br>".$s;
26             }
27             echo "<br>";
28         }
29         $selection= rand(0,4);
30         echo $student_details[0][$selection] . " phone number is ".$student_details[2][$selection];
31     ?>
32     </body>
33
34 </html>
35
Line 30, Column 43 — 35 Lines
INS UTF-8 PHP Spaces: 4
Multi dimension array
localhost/PHPL1TrainingAssignments/3.3MultiDimensionArray.php
bhuvii
koochi
kohli
rahul
rohit
9
10
1
3
4
8992894976
7637829742
8473323677
9472897847
6396767227
80
30
99
17
15
rohit phone number is 6396767227

```

4. An array contains the names of the top 10 highest mark achievers in a class. Remove and print the first element of the array. Count the items in the array now.

The screenshot shows the Brackets IDE interface with a file named '3.4RemoveSpecificElementfromArray.php' open. The code is as follows:

```
6 ▼ <style>
7 ▼   h3{
8     color: forestgreen;
9   }
10
11 </style>
12 </head>
13
14 ▼ <body>
15   <?php
16   $name=array('bhuvii','koochi','kohli','rahul','rohit','Mahesh','Edwin','Sailu','Ramya','Shalinie');
17   echo "<h3> Top 10 highest mark achievers in a class. and count </h3>";
18   print_r ($name);
19
20   echo count($name);
21   if (in_array('bhuvii', $name))
22   {
23     unset($name[array_search('bhuvii', $name)]);
24   }
25   echo "<br>";
26   echo "<h3> Top 2 to 10 highest mark achievers in a class. and count </h3>";
27   print_r ($name);
28
29   echo count($name);
30 ?>
31 </body>
32
33 </html>
34
```

Line 27, Column 21 — 34 Lines

The screenshot shows a browser window with the URL 'localhost/PHP1TrainingAssignments/3.4RemoveSpecificElementfromArray.php'. The page displays two sections of output:

Top 10 highest mark achievers in a class. and count
Array ([0] => bhuvii [1] => koochi [2] => kohli [3] => rahul [4] => rohit [5] => Mahesh [6] => Edwin [7] => Sailu [8] => Ramya [9] => Shalinie) 10

Top 2 to 10 highest mark achievers in a class. and count
Array ([1] => koochi [2] => kohli [3] => rahul [4] => rohit [5] => Mahesh [6] => Edwin [7] => Sailu [8] => Ramya [9] => Shalinie) 9

Module4: Branching and Looping Constructs

1. A variable 'marks' contains the value 80. If marks is greater than 40, you need to display the message 'Passed' else 'Failed'.

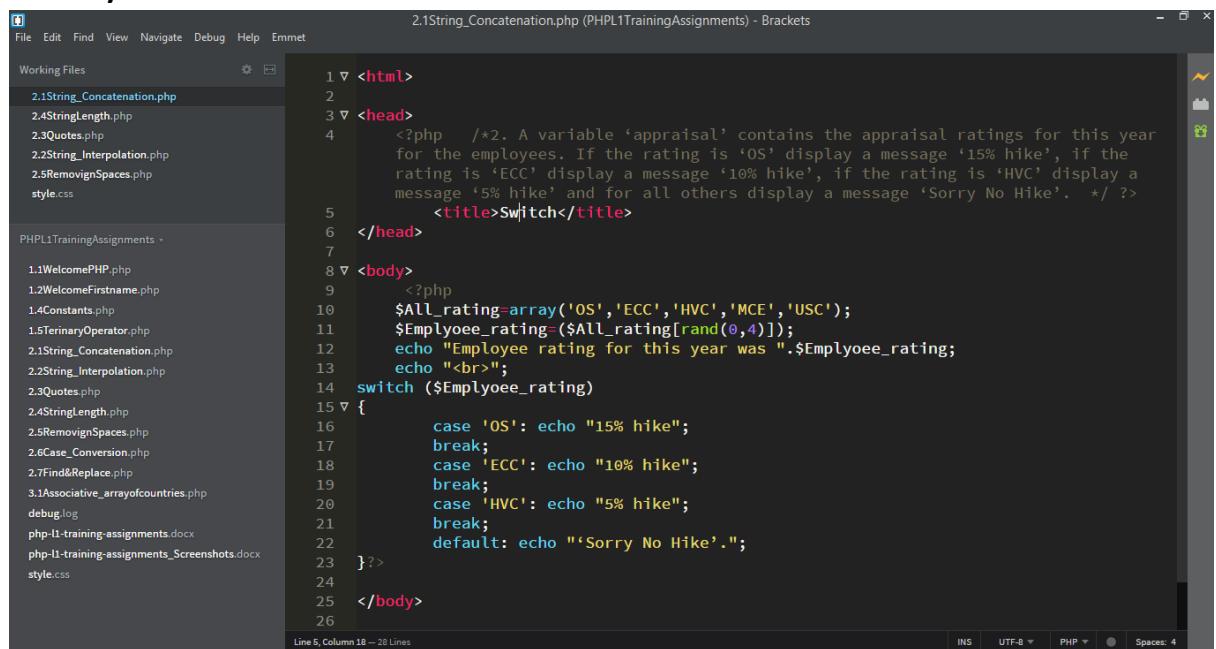
The screenshot shows the Brackets IDE interface with a file named '4.1IfElse.php' open. The code is as follows:

```
1 <html>
2
3 <head>
4     <?php /*1. A variable 'marks' contains the value 80. If marks is greater than 40, you need to display the
5      message 'Passed' else 'Failed'.*/ ?>
6     <title>If Else</title>
7 <style>
8     h3{
9         color: forestgreen;
10    }
11 </style>
12 </head>
13
14 <body>
15     <?php
16     $marks=80;
17     echo"<h3> Marks = $marks </h3>";
18     echo($marks>40? '<h3> Result = passed </h3>':'Result = failed');
19
20     ?>
21 </body>
22
23 </html>
```

The browser tab shows the output: 'Marks = 80' and 'Result = passed'. The task bar at the bottom includes icons for various applications like RSA, Outlook, Word, and Google Chrome.

2. A variable 'appraisal' contains the appraisal ratings for this year for the employees. If the rating is 'OS' display a message '15% hike', if the rating is 'ECC' display a message '10% hike', if the rating is 'HVC' display a message '5% hike' and for all others display a message

'Sorry No Hike'.



The screenshot shows the Brackets IDE interface with the file '2.1String_Concatenation.php' open. The code is a PHP script that generates a response based on an employee's appraisal rating. It includes an HTML structure with a title and body, and a PHP block that uses a switch statement to determine the hike percentage or a 'Sorry No Hike' message.

```
2.1String_Concatenation.php (PHPL1TrainingAssignments) - Brackets
File Edit Find View Navigate Debug Help Emmet

Working Files
2.1String_Concatenation.php
2.4StringLength.php
2.3Quotes.php
2.2String_Interpolation.php
2.5RemovingSpaces.php
style.css

PHPL1TrainingAssignments +
1.1WelcomePHP.php
1.2WelcomeFirstname.php
1.4Constants.php
1.5TernaryOperator.php
2.1String_Concatenation.php
2.2String_Interpolation.php
2.3Quotes.php
2.4StringLength.php
2.5RemovingSpaces.php
2.6Case_Conversion.php
2.7Find&Replace.php
3.1Associative_arrayofcountries.php
debug.log
php-l1-training-assignments.docx
php-l1-training-assignments_Screenshots.docx
style.css

1 ▼ <html>
2
3 ▼ <head>
4     <?php /*2. A variable 'appraisal' contains the appraisal ratings for this year
      for the employees. If the rating is 'OS' display a message '15% hike', if the
      rating is 'ECC' display a message '10% hike', if the rating is 'HVC' display a
      message '5% hike' and for all others display a message 'Sorry No Hike'. */ ?>
5         <title>Switch</title>
6     </head>
7
8 ▼ <body>
9     <?php
10    $All_rating=array('OS','ECC','HVC','MCE','USC');
11    $Employeee_rating=($All_rating[rand(0,4)]);
12    echo "Employeee rating for this year was ".$Employeee_rating;
13    echo "<br>";
14    switch ($Employeee_rating)
15    {
16        case 'OS': echo "15% hike";
17        break;
18        case 'ECC': echo "10% hike";
19        break;
20        case 'HVC': echo "5% hike";
21        break;
22        default: echo "'Sorry No Hike'.";
23    }?>
24
25 </body>
26

Line 5, Column 18 — 28 Lines
INS UTF-8 PHP Spaces: 4
```



3. Display all even values from 2-100 using ‘for’ loop and the ‘while’ loop

```

9         color: forestgreen;
10    }
11  </style>
12 </head>
13
14 <body>
15 <?php
16 echo "<h3> Using for loop</h3>";
17 for($i=1;$i<100;$i=$i+2){
18     echo $i;
19     echo " ,";
20 }
21 echo "<h3> Using While loop </h3>";
22 $i=1;
23 while($i<=100){
24
25     if($i%2==0){
26         echo $i;
27         echo " ,";
28     }
29
30     $i++;
31 }
32 ?>
33
34 </body>
35
36 </html>
37

```

Line 5, Column 35 — 37 Lines

For and While loops

localhost/PHPL1TrainingAssignments/4.3For&While.php

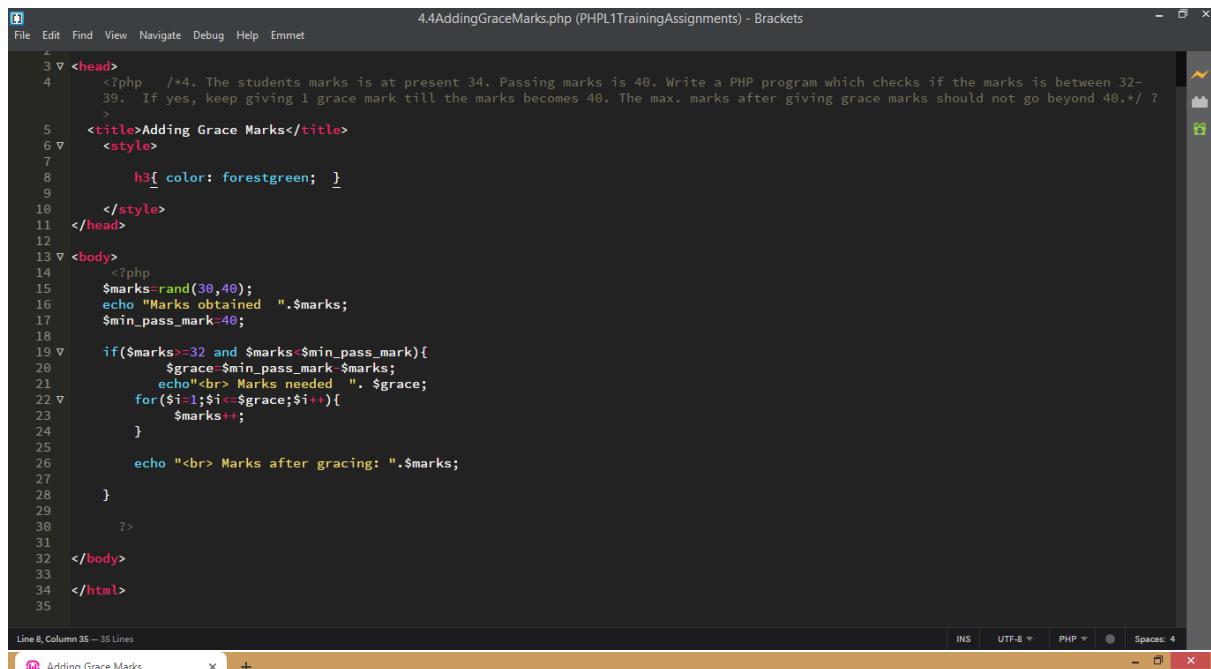
Using for loop

2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,

Using While loop

2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,

4. The students marks is at present 34. Passing marks is 40. Write a PHP program which checks if the marks is between 32-39. If yes, keep giving 1 grace mark till the marks becomes 40. The max. marks after giving grace marks should not go beyond 40.



The screenshot shows the Brackets IDE interface with a PHP file named "4.4AddingGraceMarks.php". The code generates a random mark between 30 and 40, calculates the grace marks needed to reach 40, and then adds those grace marks to the original mark to get the final result.

```
4.4AddingGraceMarks.php (PHPL1TrainingAssignments) - Brackets
File Edit Find View Navigate Debug Help Emmet
3 ▼ <head>
4     <?php /*4. The students marks is at present 34. Passing marks is 40. Write a PHP program which checks if the marks is between 32-39. If yes, keep giving 1 grace mark till the marks becomes 40. The max. marks after giving grace marks should not go beyond 40.*? */
5     <title>Adding Grace Marks</title>
6 ▼     <style>
7
8         h3{ color: forestgreen; }
9
10    </style>
11 </head>
12
13 ▼ <body>
14     <?php
15     $marks=rand(30,40);
16     echo "Marks obtained ". $marks;
17     $min_pass_mark=40;
18
19     if($marks>=32 and $marks<$min_pass_mark){
20         $grace=$min_pass_mark-$marks;
21         echo "<br> Marks needed ". $grace;
22         for($i=1;$i<=$grace;$i++){
23             $marks++;
24         }
25
26         echo "<br> Marks after gracing: ".$marks;
27     }
28
29
30     ?>
31 </body>
32
33 </html>
34
35
```

Line 8, Column 35 -- 35 Lines

INS UTF-8 PHP Spaces: 4

Adding Grace Marks

localhost/PHPL1TrainingAssignments/4.4AddingGraceMarks.php

Marks obtained 35
Marks needed 5
Marks after gracing: 40

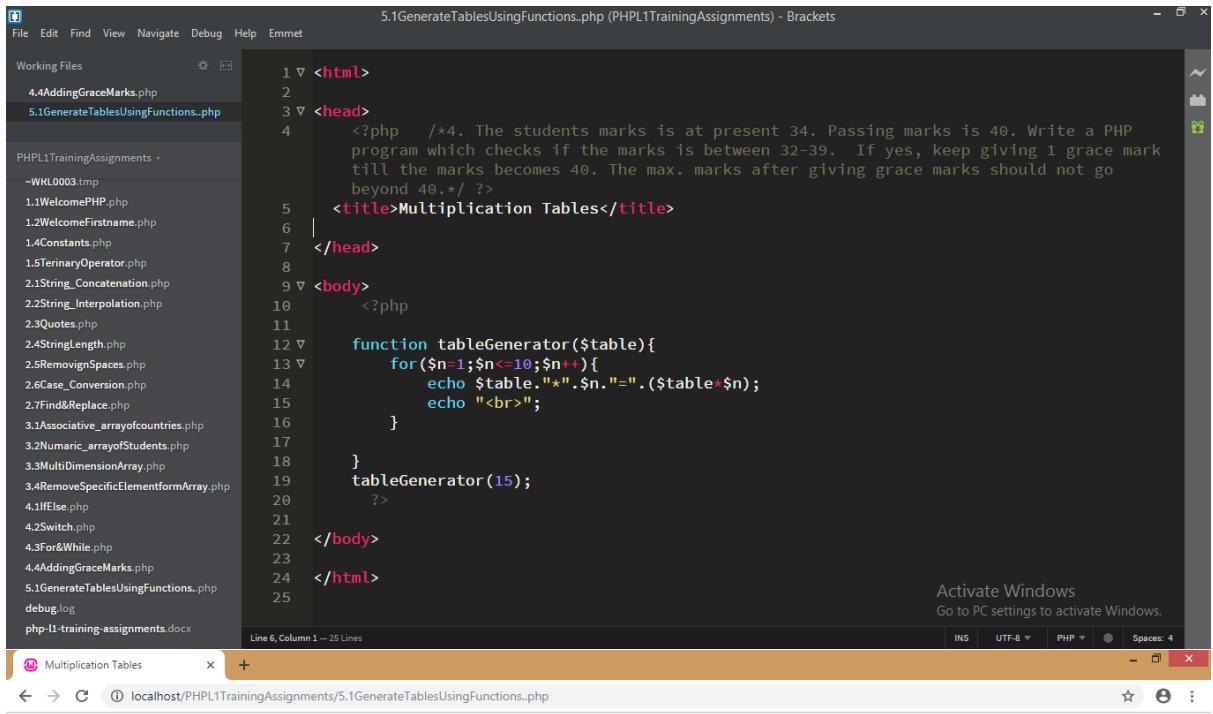


Module5: PHP Functions

1. Write a PHP program using functions to generate multiplication tables in the below format.

15	X	1	=	15
15	X	2	=	30
15	X	3	=	45
15	X	4	=	60
15	X	5	=	75
15	X	6	=	90
15	X	7	=	105
15	X	8	=	120

15	X	9	=	135
15	X	10	=	150

1. 

```

1 <html>
2
3 <head>
4     <?php /*4. The students marks is at present 34. Passing marks is 40. Write a PHP
      program which checks if the marks is between 32-39. If yes, keep giving 1 grace mark
      till the marks becomes 40. The max. marks after giving grace marks should not go
      beyond 40.*/ ?>
5     <title>Multiplication Tables</title>
6
7 </head>
8
9 <body>
10    <?php
11
12    function tableGenerator($table){
13        for($n=1;$n<=10;$n++){
14            echo $table."*".$n."=".($table*$n);
15            echo "<br>";
16        }
17    }
18    tableGenerator(15);
19
20    ?>
21
22 </body>
23
24 </html>

```

Activate Windows
Go to PC settings to activate Windows.

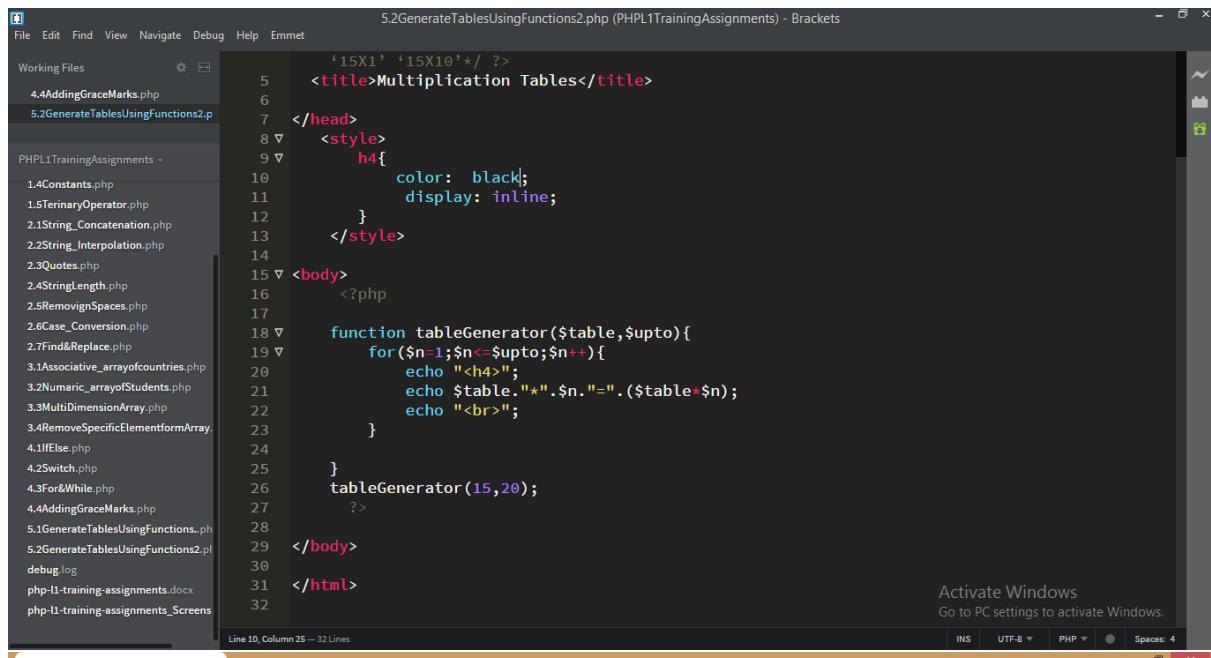
localhost/PHPL1TrainingAssignments/5.1GenerateTablesUsingFunctions.php

```

15*1=15
15*2=30
15*3=45
15*4=60
15*5=75
15*6=90
15*7=105
15*8=120
15*9=135
15*10=150

```

Function should take a ‘number’ as one argument and ‘end number’ as second argument and generate the tables as above for the ‘number’ till the ‘end number’ (Here number is ‘15’ and the ‘end number’ is 10) (i.e. multiplication table of 15 from ‘15X1’ ‘15X10’)



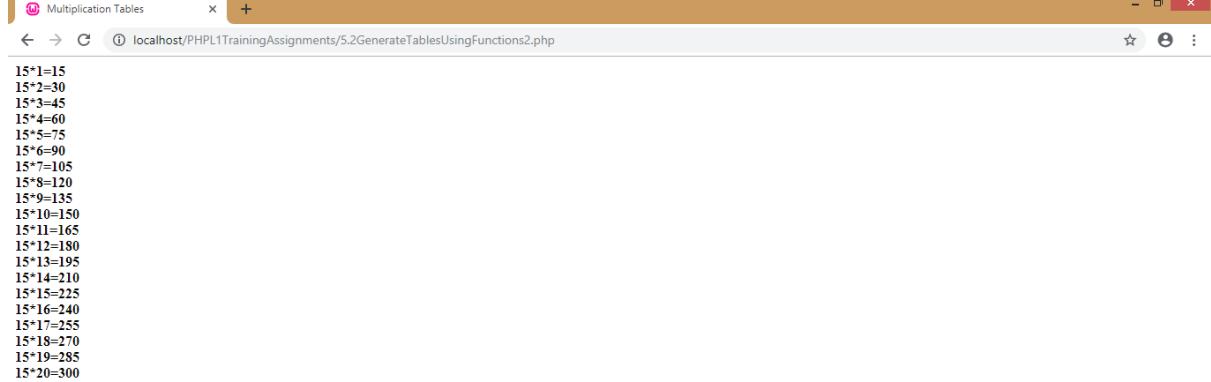
The screenshot shows the Brackets IDE interface. The left sidebar lists various PHP files under 'Working Files' and 'PHPL1TrainingAssignments'. The main editor area contains the following PHP code:

```

5 <title>Multiplication Tables</title>
6
7 </head>
8 <style>
9   h4{
10     color: black;
11     display: inline;
12   }
13 </style>
14
15 <body>
16   <?php
17
18   function tableGenerator($table,$upto){
19     for($n=1;$n<$upto;$n++){
20       echo "<h4>";
21       echo $table."*".$n."=".($table*$n);
22       echo "<br>";
23     }
24
25   }
26   tableGenerator(15,20);
27 ?>
28
29 </body>
30
31 </html>

```

The status bar at the bottom indicates 'Line 10, Column 25 — 32 Lines'.



The browser window displays the output of the PHP script, which is a list of multiplication facts from 15*1 to 15*20:

```

15*1=15
15*2=30
15*3=45
15*4=60
15*5=75
15*6=90
15*7=105
15*8=120
15*9=135
15*10=150
15*11=165
15*12=180
15*13=195
15*14=210
15*15=225
15*16=240
15*17=255
15*18=270
15*19=285
15*20=300

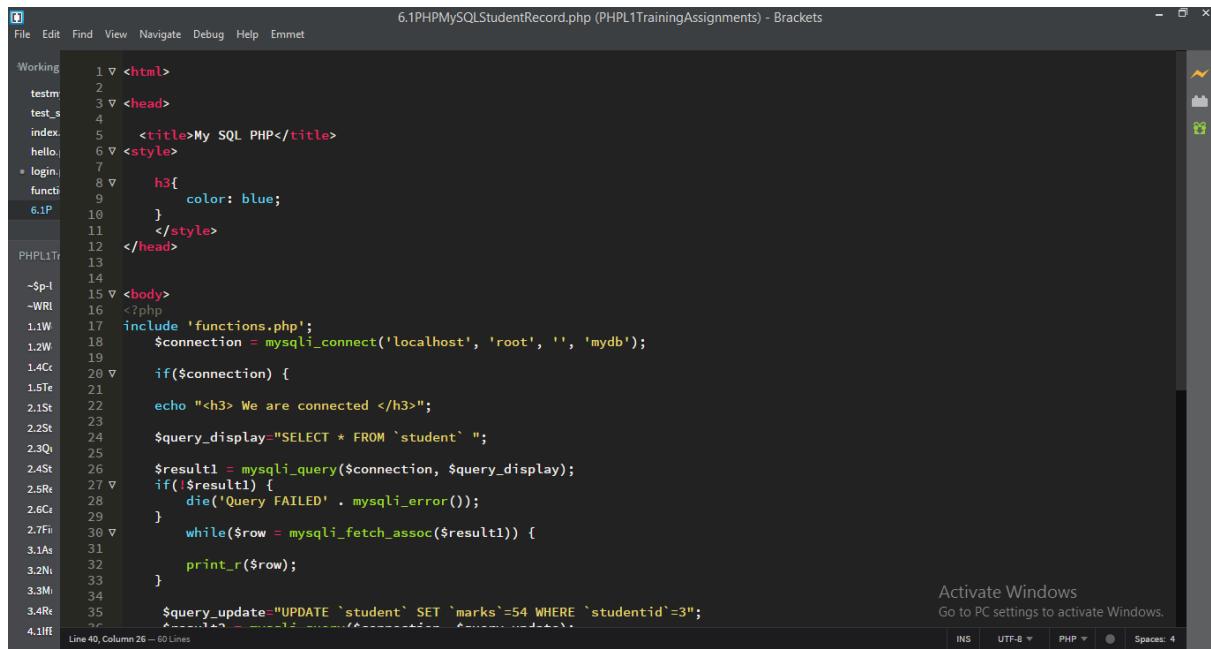
```

Activate Windows
Go to PC settings to activate Windows.

Module 6: PHP MySQL

1. A table in MySQL called ‘Student’ has columns like ‘studentid’, ‘studentname’, ‘class’ and ‘marks’. It has some sample records as well. The PHP program should do the below:
 - a. Select all the records of the table as rows and display it.
 - b. Update the marks of a particular student

c. Delete the record of a particular student



6.1PHPMYSQLStudentRecord.php (PHPL1TrainingAssignments) - Brackets

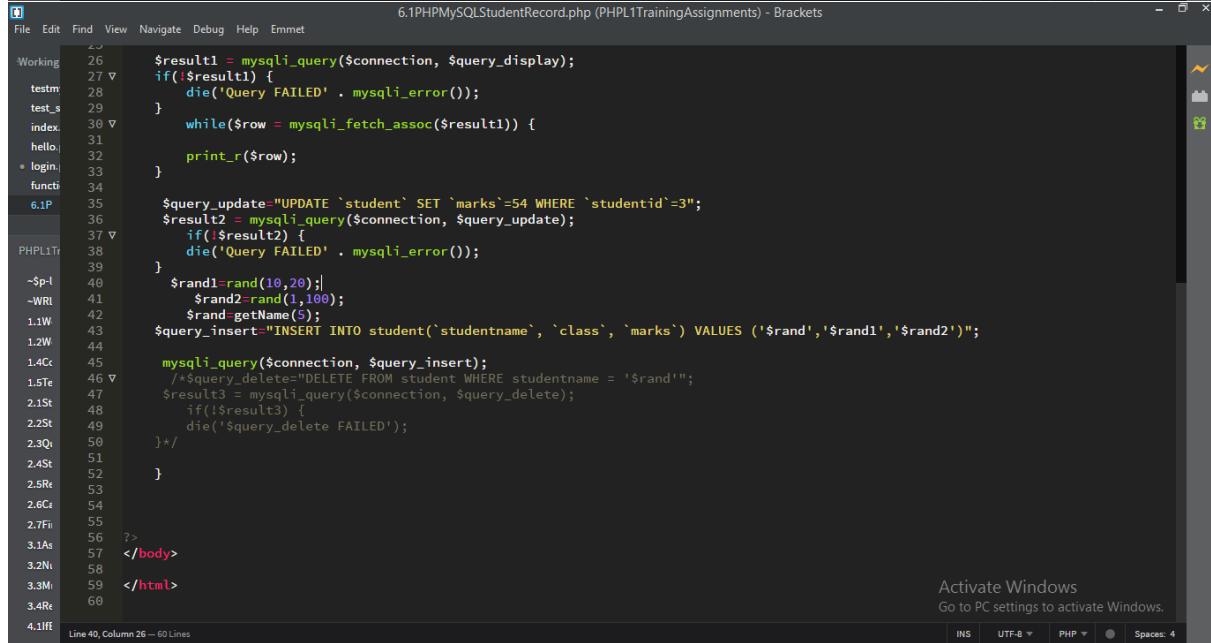
```
1 <html>
2
3 <head>
4
5     <title>My SQL PHP</title>
6 <style>
7
8     h3{
9         color: blue;
10    }
11 </style>
12 </head>
13
14
15 <body>
16 </php>
17 include 'functions.php';
18 $connection = mysqli_connect('localhost', 'root', '', 'mydb');
19
20 if($connection) {
21
22     echo "<h3> We are connected </h3>";
23
24     $query_display="SELECT * FROM `student` ";
25
26     $result1 = mysqli_query($connection, $query_display);
27 if(!$result1) {
28     die('Query FAILED' . mysqli_error());
29 }
30 while($row = mysqli_fetch_assoc($result1)) {
31
32     print_r($row);
33 }
34
35     $query_update="UPDATE `student` SET `marks`=54 WHERE `studentid`=3";
36
37
38 }
```

Activate Windows
Go to PC settings to activate Windows.

File Edit Find View Navigate Debug Help Emmet

Working testm test_s index hello login functi 6.1P PHPL1Tr ~\$p1 ~WRL 1:1W 1:2W 1:4Cc 1:5Te 2:1St 2:2St 2:3Qq 2:4St 2:5Rr 2:6Gt 2:7Ff 3:1As 3:2Nn 3:3Mm 3:4Rr 4:1If Line 40, Column 26 – 60 Lines

INS UTF-8 PHP Spaces: 4



6.1PHPMYSQLStudentRecord.php (PHPL1TrainingAssignments) - Brackets

```
25
26     $result1 = mysqli_query($connection, $query_display);
27 if(!$result1) {
28     die('Query FAILED' . mysqli_error());
29 }
30 while($row = mysqli_fetch_assoc($result1)) {
31
32     print_r($row);
33 }
34
35     $query_update="UPDATE `student` SET `marks`=54 WHERE `studentid`=3";
36     $result2 = mysqli_query($connection, $query_update);
37 if(!$result2) {
38     die('Query FAILED' . mysqli_error());
39 }
40     $rand1=rand(10,20);
41     $rand2=rand(1,100);
42     $rand=getName(5);
43     $query_insert="INSERT INTO student(`studentname`, `class`, `marks`) VALUES ('$rand','$rand1','$rand2')";
44
45     mysqli_query($connection, $query_insert);
46     /*$query_delete="DELETE FROM student WHERE studentname = '$rand'";
47     $result3 = mysqli_query($connection, $query_delete);
48     if(!$result3) {
49         die('$query_delete FAILED');
50     }*/
51
52 }
```

Activate Windows
Go to PC settings to activate Windows.

File Edit Find View Navigate Debug Help Emmet

Working testm test_s index hello login functi 6.1P PHPL1Tr ~\$p1 ~WRL 1:1W 1:2W 1:4Cc 1:5Te 2:1St 2:2St 2:3Qq 2:4St 2:5Rr 2:6Gt 2:7Ff 3:1As 3:2Nn 3:3Mm 3:4Rr 4:1If Line 40, Column 26 – 60 Lines

INS UTF-8 PHP Spaces: 4



Activate Windows
Go to PC settings to activate Windows.

The screenshot shows the phpMyAdmin interface for the "mydb" database. The "student" table is selected. The table structure is shown with columns: studentid, studentname, class, and marks. Two rows of data are present:

	studentid	studentname	class	marks
Edit Copy Delete	136	hkfqm	14	43
Edit Copy Delete	137	gtbvj	19	11

Below the table, there are "Query results operations" buttons: Print, Copy to clipboard, Export, Display chart, Create view, and a Console button.

Activate Windows
Go to PC settings to activate Windows.

File Edit Find View Navigate Debug Help Emmet

Working 26
27 ▾
testm 28
test_s 29
index 30 ▾
hello 31
login 32
functi 33
6.1P 34
PHPL1Tr 35
~Sp-I 36
-WRI 37 ▾
1.1W 38
1.2W 39
1.4Ct 40
1.5Te 41
2.1St 42
2.2St 43
2.3Ql 44
2.4St 45
2.5Rr 46
2.6Ct 47
2.7Fil 48 ▾
3.1As 49
3.2Nl 50
3.3Mi 51
3.4Re 52
4.1Ife 53
Line 50, Column 6 — 50 Lines

```
$result = mysqli_query($connection, $query_display);
if(!$result1) {
    die('Query FAILED' . mysqli_error());
}
while($row = mysqli_fetch_assoc($result1)) {
    print_r($row);
}

$query_update="UPDATE `student` SET `marks`=54 WHERE `studentid`=3";
$result2 = mysqli_query($connection, $query_update);
if(!$result2) {
    die('Query FAILED' . mysqli_error());
}
$rand1=rand(10,20);
$rand2=rand(1,100);
$rand=getName(5);
$query_insert="INSERT INTO student(`studentname`, `class`, `marks`) VALUES ('$rand','$rand1','$rand2')";
mysqli_query($connection, $query_insert);
$query_delete="DELETE FROM student WHERE studentname = '$rand'";
$result3 = mysqli_query($connection, $query_delete);
if(!$result3) {
    die('$query_delete FAILED');
}

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

Activate Windows
Go to PC settings to activate Windows.

We are connected

Module7: PHP and HTML Forms

1. Display a HTML form that contains two text boxes to enter ‘science’ and ‘maths’ marks and a submit button to the user. The user enters the marks and clicks on the submit button which in turn calls the PHP program that displays the ‘Total Marks’ of the user and also the ‘Average Marks’ of the user by performing appropriate calculations.

File Edit Find View Navigate Debug Help Emmet

Working Files 32
7Htmlforms.php 33
db.php 34
38_39_40_login.php 35
43_50_51_53_54_login_create.php 36
44_login_read.php 37
45_46_47_48_login_update.php 38
45_46_52_53_functions.php 39

PHPL1TrainingAssignments 40
2.6Case_Conversion.php 41
2.7Find&Replace.php 42
3.1Associative_arrayofcountries.php 43
3.2Numeric_arrayofStudents.php 44
3.3MultiDimensionArray.php 45
3.4RemoveSpecificElementfromArray.php 46
4.1IfElse.php 47
4.2Switch.php 48
4.3For&While.php 49
4.4AddingGraceMarks.php 50
5.1GenerateTablesUsingFunctions.php 51
5.2GenerateTablesUsingFunctions2.php 52
6.1PHPMYSQLStudentRecord.php 53
7Htmlforms.php 54
db.php 55
debug.log 56
functions.php 57

if(isset(\$_POST['submit'])) {
 \$ScienceMarks= \$_POST['ScienceMarks'];
 \$MathsMarks = \$_POST['MathsMarks'];

 if(\$ScienceMarks==0 or \$MathsMarks==0){
 echo "please enter valid numeric | details";
 }
 else{ ?>

<p> Entered:- Science Marks= <?php echo \$ScienceMarks ?> and Maths Marks=<?php
echo \$MathsMarks ?> </p>
<?php
\$sum= \$ScienceMarks+\$MathsMarks;
\$avg= (\$ScienceMarks+\$MathsMarks)/2 ; ?>

<p>Total Marks: The total of Science marks and Mathis marks is <?php echo \$sum ?>
</p>
<p>Average Marks: The average of Science marks and Mathis marks <?php echo
\$avg; ?> </p>

<?php

 }
}

else{

 echo "Enter your marks and click submit to know total and average";
}
?

Line 42, Column 54 — 76 Lines

The screenshot shows the Brackets IDE interface with the file "7Htmlforms.php" open. The code is a PHP script designed to calculate the total and average of Science and Maths marks. It includes HTML form elements for inputting marks and displaying the results.

```
7Htmlforms.php (PHPL1TrainingAssignments) - Brackets
File Edit Find View Navigate Debug Help Emmet
Working Files
7Htmlforms.php
db.php
38_39_40_login.php
43_50_51_53_54_login_create.php
44_login_read.php
45_46_47_48_login_update.php
45_46_52_53_functions.php
PHP L1TrainingAssignments +
2.6Case_Conversion.php
2.7Find&Replace.php
3.1Associative_arrayofcountries.php
3.2Numeric_arrayofStudents.php
3.3MultiDimensionArray.php
3.4RemoveSpecificElementFromArray.php
4.1IfElse.php
4.2Switch.php
4.3For&While.php
4.4AddingGraceMarks.php
5.1GenerateTablesUsingFunctions.php
5.2GenerateTablesUsingFunctions2.php
6.1PHPMYSQLStudentRecord.php
7Htmlforms.php
db.php
debug.log
functions.php

45
46     <p><strong> Entered:- </strong> Science Marks= <?php echo $ScienceMarks ?> and Maths Marks=<?php
47     echo $MathsMarks ?> </p>
48     <?php
49     $sum= $ScienceMarks+$MathsMarks;
50     $avg=($ScienceMarks+$MathsMarks)/2 ; ?
51
52     <p><strong>Total Marks:</strong> The total of Science marks and Mathis marks is <?php echo $sum ?
53     > </p>
54     <p><strong>Average Marks:</strong> The average of Science marks and Mathis marks <?php echo
55     $avg; ?> </p>
56
57     <?php
58     } else{
59         echo "Enter your marks and click submit to know total and average";
60     }
61
62     ?>
63
64
65
66
67     </form>
68 </div>
69
70
71
72
73
74     </div>
75 </body>
76 </html>

Line 42, Column 54 — 76 Lines
```

Activate Windows
Go to PC settings to activate Windows.

INS UTF-8 PHP Spaces: 4



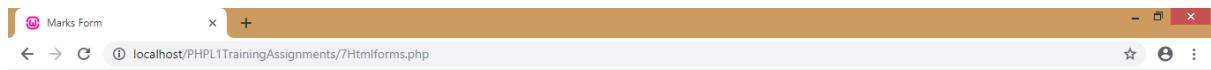
Science Marks:

Maths Marks:

Submit

Enter your marks and click submit to know total and average

Activate Windows
Go to PC settings to activate Windows.



Science Marks:

Maths Marks:

Submit

Entered:- Science Marks= 12 and Maths Marks=13

Total Marks: The total of Science marks and Maths marks is 25

Average Marks: The average of Science marks and Maths marks 12.5

Activate Windows
Go to PC settings to activate Windows.

Marks Form

localhost/PHPL1TrainingAssignments/7Htmlforms.php

Science Marks:

Maths Marks:

Submit

Please enter valid numeric details

Activate Windows
Go to PC settings to activate Windows.

Module8: PHP Regular Expressions

1. Write a program to find whether the pattern ‘ball’ exists in a string. If yes, display the matched items.

The screenshot shows the Brackets IDE interface. The left sidebar lists various PHP files under 'Working Files' and 'PHPL1TrainingAssignments'. The main editor window contains the following PHP code:

```
1 <?php
2 //1. Write a program to find whether the pattern 'ball' exists in a string. If yes, display the matched
3 items.
4 $my_Word = "i have green ball , do you have pink tennis ball , i have red cricket ball and yellow smily ball";
5
6 if (preg_match("/ball/", $my_Word))
7 {
8     echo "$my_Word <h3> contains ball</h3>";
9 }
10 else
11 {
12     echo "$my_Word <h3> does n't ontains ball </h3>";
13 }
14 ?>
```

The status bar at the bottom indicates 'Line 5, Column 1 — Selected 1 line — 14 Lines'. The bottom right corner shows activation status: 'Activate Windows' and 'Go to PC settings to activate Windows.' Below the IDE is a browser window showing the output of the PHP code.

localhost/PHPL1TrainingAssignments/8.1PattenMatch.php

i have green ball , do you have pink tennis ball , i have red cricket ball and yellow smily ball

contains ball

Activate Windows
Go to PC settings to activate Windows.

Write a program to check whether the string contains a pattern with 3 numbers only (not less not more) If yes, display that number.

The screenshot shows the Brackets IDE interface with the file "8.2PattenNumbers.php" open. The code is a PHP script designed to check if a string contains exactly three digits. It includes an include statement for "functions.php", defines a variable \$my_Word, and uses a preg_match function to validate the input. A comment at the top explains the task. The code editor has syntax highlighting for PHP, and the status bar at the bottom right shows settings like "INS", "UTF-8", "PHP", and "Spaces: 4".

```
1 <?php
2 //3. Write a program to check whether the string contains a
3 //pattern with 3 numbers only (not less not more) If yes, display
4 //that number..
5     include "functions.php";
6 $my_Word =1;
7 if (preg_match("[0-9]{3}", $my_Word)) {
8     echo "Your url is ok.";
9 }
10 else
11 {
12 }
13 }
14 ?>
```