



## Exercise Three

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3.1 Create a new PHP file and within it a new numeric array holding the following values ... abc, def, ghi, jkl, mno, output the second value in the array ...

Save as c:\course\ex3\_1.php

*def*

3.2 Add the rest of the alphabet to the existing array created in ex3\_1.php, output a count of the number of arrays and their values ...

Save as c:\course\ex3\_2.php

*There are 9 array values*

```
array(9) { [0]=> string(3) "abc" [1]=> string(3) "def" [2]=> string(3) "ghi" [3]=>
  string(3) "jkl" [4]=> string(3) "mno" [5]=> string(3) "pqr" [6]=> string(3) "stu"
  [7]=> string(3) "vwx" [8]=> string(2) "yz" }
```



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3.3 Create an associative array based on the following population figures for UK towns, use the town name as the key ...

<i>London</i>	<i>7,619,800</i>
<i>Birmingham</i>	<i>1,010,400</i>
<i>Glasgow</i>	<i>637,000</i>
<i>Leeds</i>	<i>477,600</i>
<i>Manchester</i>	<i>465,900</i>
<i>Bristol</i>	<i>465,500</i>
<i>Liverpool</i>	<i>464,200</i>
<i>Sheffield</i>	<i>458,100</i>
<i>Edinburgh</i>	<i>452,200</i>

Print out the population for Sheffield. Save as `c:\course\ex3_3.php`

*The population of Sheffield is 458100*

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3.4 Manually output the contents of the array created in ex3\_3.php, use the technique of *current()*, *next()* and *key()* to produce the following result. Save as ex3\_4.php ...

*The city of London is 7,619,800*

*The city of Birmingham is 1,010,400*

*The city of Glasgow is 637,000*

*The city of Leeds is 477,600*

*The city of Manchester is 465,900*

*The city of Bristol is 465,500*

*The city of Liverpool is 464,200*

*The city of Sheffield is 458,100*

*The city of Edinburgh is 452,200*



## Exercise Three

3.5 Create a new PHP file and within it create a two dimensional array which effectively recreates the following ... Save as c:\course\ex3\_5.php

	0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9	10
1	2	4	6	8	10	12	14	16	18	20
2	3	6	9	12	15	18	21	24	27	30
3	4	8	12	16	20	24	28	32	36	40
4	5	10	15	20	25	30	35	40	45	50
5	6	12	18	24	30	36	42	48	54	60
6	7	14	21	28	35	42	49	56	63	70
7	8	16	24	32	40	48	56	64	72	80
8	9	18	27	36	45	54	63	72	81	90
9	10	20	30	40	50	60	70	80	90	100

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3.5 continued .... output the following positions in the array ...

*[5][0]*

*[5][5]*

*[9][9]*

The output should be as follows ...

*6*

*36*

*100*

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3.6 Convert the array created in ex3\_5 into a string and output it (Hint: Use one dimension (row) at a time) ... Save as c:\course\ex3\_6.php

```
123456789102468101214161820369121518212427304812162024283236405101520253  
354045506121824303642485460714212835424956637081624324048566472809182736  
55463728190102030405060708090100
```