

Please answer the following two questions: starting from Ch1:Ch3 (PHP) ("Don't submit the answers of these questions , the TA will ask you about the answers in the section"

Question 1:

- I. Correct the errors in the following scripts "if any" then give the HTML output as well as the output on the browser : "you have to understand every instruction"
- a)

```
<?php
$Bar = "a"; $Foo = "Bar"; $world = "Foo"; $Hello = "world"; $a= "Hello"; echo
$$$$a; ?>
```
- b)

```
<?php
function makecoffee($type = 'any', $coffeeMaker = NULL) {
    $device = $coffeeMaker ? "hands" : $coffeeMaker;
    return "Making a cup of ".$type." with $device.\n";
}
echo makecoffee();
echo makecoffee("cappuccino", "teapot"); ?>
```
- c)

```
<?php
function &scalar_ref_inc_x($x) {
    $x++;
    return $x; }
$x = 1;
$x2 =& scalar_ref_inc_x($x);
scalar_ref_inc_x($x2);
echo $x . ', ' . $x2 . "\n"; ?>
```
- d)

```
<?php
function &find_variable($one, $two, $three) {
    if($one > 10 && $one < 20) return $one;
    if($two > 10 && $two < 20) return $two;
    if($three > 10 && $three < 20) return $three; }
$one = 2; $two = 20; $three = 15;
$var = &find_variable($one, $two, $three);
$var++;
print "1: $one, 2: $two, 3: $three"; ?>
```
- II. Write while () in PHP script to print out a table of Fahrenheit and Celsius temperature equivalents from -50 degrees F to 50 degrees F in 5-degree increments. On the Fahrenheit temperature scale, water freezes at 32 degrees and boils at 212 degrees. On the Celsius scale, water freezes at 0 degrees and boils at 100 degrees. So, to convert from Fahrenheit to Celsius, you subtract 32 from the temperature, multiply by 5, and divide by 9. To convert from Celsius to Fahrenheit, you multiply by 9, divide by 5, and then add 32. No script is allowed outside

```
<?php
```

 and

```
?>
```

Question 2:

Correct the errors in the following scripts "if any" then give the HTML output as well as the output on the browser "you have to understand every instruction"

a)	<pre><?php \$array1 = array ('a' => 20, 30, 35); \$array2 = array ('b' => 20, 35, 30); var_dump (\$array1+\$array2); ?></pre>
b)	<pre><?php \$arr1 = array("a" => 1, "b" => 2, "c" => 3); \$arr2 = array("x" => 4, "y" => 5, "z" => 6); foreach (\$arr1 as \$key => &\$val) {} foreach (\$arr2 as \$key => \$val) {} var_dump(\$arr1); var_dump(\$arr2); ?></pre>

c)	<pre><?php \$foo = array(); \$foo['bar'] = NULL; var_dump(isset(\$foo['bar'])); var_dump(array_key_exists('bar', \$foo)); ?></pre>
d)	<pre><?php \$r = array('05' => "abc", '35' => "def", 10); foreach (\$r as \$key=>\$value) { var_dump(\$key); echo "
"; if(array_key_exists(36,\$r)) unset (\$r[36]); echo "\$key: \$value
"; } ?></pre>
e)	<pre><?php \$r = array('05' => "abc", '35' => "def", 10); echo "
/////////////////////////////////
"; foreach (\$r as \$key=>&\$value) { if(array_key_exists(36,\$r)) unset (\$value); echo "\$key: \$value
"; } ?></pre>
f)	<pre><?php \$r = array('05' => "abc", '35' => "def", 10); echo "
/////////////////////////////////
"; foreach (\$r as \$key=>&\$value) { if(array_key_exists(36,\$r)) unset (\$r[36]); echo "\$key: \$value
"; } ?></pre>
g)	<pre><?php function i(){ \$args = func_get_args(); \$array = \$args[0]; \$indexes = \$args; unset(\$indexes[0]); foreach(\$indexes as \$index){ if((! is_array(\$array)) (! array_key_exists(\$index, \$array))){ var_dump(\$args); } }</pre>

	<pre>\$array = \$array[\$index]; } return \$array; } \$b=array(1,2); \$a=i(\$b,3,9); var_dump(\$a); ?></pre>
h)	<pre><?php function fun(&\$array, &\$any, \$var1=50, \$var2=0) { if(\$var2 > \$var1) { \$any = \$array; return; } if(!is_array(\$any)) \$any = array(); foreach(\$array as \$k => &\$v) { if(is_array(\$v)) {fun(\$v,\$any[\$k],\$var1,++\$var2); } else { \$any[\$k] = \$v; } } } \$theArray = array("A" => array("a", "b", "c" => array("x")), "B" => "y"); fun(\$theArray , \$a, 1); print_r(\$a); ?></pre>
i)	<pre><?php \$people = array(12345 => array('id' => 12345, 'first_name' => 'Joe', 'surname' => '2Bloggs', 'age' => 23), 12346 => array('id' => 12346, 'first_name' => 'Adam', 'surname' => '1Smith', 'age' => 18), 12347 => array('id' => 12347, 'first_name' => 'Amy', 'surname' => '10Jones', 'age' => 21)); print_r(sortmulti(\$people, 'age', '1')); echo "
"; print_r(sortmulti(\$people, 'surname', '2',TRUE)); function sortmulti(\$array,\$index,\$order,\$natsort=FALSE, \$case_sensitive=FALSE) { if(is_array(\$array) && count(\$array)>0) {</pre>

	<pre>foreach(array_keys(\$array) as \$key) \$temp[\$key]=\$array[\$key][\$index]; if(!\$natsort) { if (\$order=='2') asort(\$temp); else arsort(\$temp); } else { if (\$case_sensitive===true) natsort(\$temp); else natcasesort(\$temp); if(\$order!='2') \$temp=array_reverse(\$temp,TRUE); } foreach(array_keys(\$temp) as \$key) if(is_numeric(\$key))/* Returns TRUE if \$key is a number or a numeric string/ \$sorted[]=\$array[\$key]; else \$sorted[\$key]=\$array[\$key]; return \$sorted; } return \$sorted; } ?></pre>
j)	<pre><?php \$fruits =array("d" =>"lemon","a" =>"orange","b" =>"banana","c" =>"apple"); function test_alter(&\$item1, \$key, \$prefix) { \$item1 = "\$prefix: \$item1"; } function test_print(\$item2, \$key) { echo "\$key. \$item2
\n"; } echo "Before ...:\n"; array_walk(\$fruits, 'test_print'); array_walk(\$fruits, 'test_alter', 'fruit'); echo "... and after:\n"; array_walk(\$fruits, 'test_print'); ?></pre>
k)	<pre><?php error_reporting(E_ALL); var_dump(any_any(array('a'), array('simple-minded'), array('solution')));</pre>

```
echo"\n <br>";
print_r(any_any(array('foo','bar'), array('baz', 'qux')));
echo"\n <br>";
var_dump(any_any(array('a'), array('red', 'blue'), array('car')));
echo"\n <br>";
var_dump(any_any('a','b','1'));
function any_any(array $first_element, array $second_element)
{
    $lists = func_get_args();
    $total_lists = func_num_args();
    for($i=0; $i<$total_lists; $i++)
    {
        $list =& $lists[$i];
        if (is_array($list) === FALSE)
            echo "Parameter $i is not an array.";
        if (count($list) === 0)
            echo "Parameter $i has no element.";
        unset($list);
    }
    $any = array();
    foreach($lists[0] as &$value)
    {
        array_push($any, (array)($value));
        unset($value);
    }
    unset($lists[0]);
    for($i=1; $i<$total_lists; $i++)
    {
        $list =& $lists[$i];
        $new_any = array();
        foreach($list as &$value)
        {
            foreach($any as $_)
            {
                array_push($_, $value);
                array_push($new_any, $_);
            }
        }
        $any =& $new_any;
        unset($new_any, $list, $lists[$i]);
    }
}
```

	<pre>return \$any; } ?></pre>
--	---