<html>

<head>

<title>

AIIP HW2 Demo

</title>

</head>

<body>

<h2> PHP 7 Object Oriented Design (Zebo Xiong)</h2>

<form name="form\_hw2" method="POST">

<input type="radio" name="funcs\_hw2" value="rmRow" >rmRow<p>

<input type="radio" name="funcs\_hw2" value="rmAssocArray" >rmAssocArray<p>

<input type="radio" name="funcs\_hw2" value="addCol" >addCol<p>

<input type="radio" name="funcs\_hw2" value="rmCol" >rmCol<p>

<input type="radio" name="funcs\_hw2" value="renameCol" >renameCol<p>

<input type ="submit" name="submit" value="submit">

</form>

</body>

</html>

<?php

**if** (isset($\_POST['submit']))

{

$testObj = **new** table(**array**(

"a",

"b",

"c"

));

$testObj->addRow(**array**(

**7**,

**8**,

**9**

));

$testObj->addRow(**array**(

**5**,

**6**,

**7**

));

$testObj->addRowAssocArray(**array**(

"b" => **0**,

"a" => **6**,

"c" => **3**

));

$zebo\_POST = $\_POST['funcs\_hw2'];

**if** ($zebo\_POST == 'rmRow')

{

**print** "Before**\n**";

$testObj->output();

**print** "After**\n**";

$testObj->rmRow(**array**(

**7**,

**8**,

**9**

));

$testObj->output();

}

**else** **if** ($zebo\_POST == 'rmAssocArray')

{

**print** "Before**\n**";

$testObj->output();

**print** "After**\n**";

$testObj->rmRowAssocArray(**array**(

"b" => **0**,

"a" => **6**,

"c" => **3**

));

$testObj->output();

}

**else** **if** ($zebo\_POST == 'rmCol')

{

**print** "Before **\n**";

$testObj->output();

**print** "After**\n**";

$testObj->rmCol("a");

$testObj->output();

}

**else** **if** ($zebo\_POST == 'addCol')

{

**print** "Before ${s}**\n**";

$testObj->output();

**print** "After add null column";

$testObj->addCol("m");

$testObj->output();

**print** "After add null column k";

$testObj->addCol("g", k);

$testObj->output();

}

**else** **if** ($zebo\_POST == 'renameCol')

{

**print** "Before **\n**";

$testObj->output();

**print** "After renaming 1 column";

$testObj->renameCol("b");

$testObj->output();

**print** "After renaming multiple columns";

$testObj->renameCol("a", "b", "c");

$testObj->output();

}

}

?>

<?php

**class** **Table**

{

**var** $table\_array = **array**();

**var** $headers = **array**();

**var** $cols;

**function** **Table**($headers)

{

$this->headers = $headers;

$this->cols = count($headers);

}

**function** **addRow**($row)

{

**if** (count($row) != $this->cols) **return** **false**;

array\_push($this->table\_array, $row);

**return** **true**;

}

**function** **addRowAssocArray**($row\_assoc)

{

$row = **array**();

**foreach** ($this->headers **as** $header)

{

**if** (!isset($row\_assoc[$header])) $row\_assoc[$header] = "";

$row[] = $row\_assoc[$header];

}

array\_push($this->table\_array, $row);

**return** **true**;

}

**function** **rmRow**($row)

{

**if** (in\_array($row, $this->table\_array))

**foreach** ($this->table\_array **as** $key => $value)

{

**print** "key= " . $key;

**if** ($row === $value) unset($this->table\_array[$key]);

}

}

**function** **rmRowAssocArray**($row\_assoc)

{

$row = **array**();

**foreach** ($this->headers **as** $header)

{

**if** (!isset($row\_assoc[$header])) $row\_assoc[$header] = "";

$row[] = $row\_assoc[$header];

}

**foreach** ($this->table\_array **as** $key => $value) {

**if** ($row === $value) unset($this->table\_array[$key]);

}

}

**function** **addCol**($colName, $col\_Value = "null")

{

**if** (!in\_array($colName, $this->headers))

{

$this->headers[$this->cols] = $colName;

**foreach** ($this->table\_array **as** $key => $value) {

$this->table\_array[$key][$this->cols] = $col\_Value;

}

}

}

**function** **rmCol**($colName)

{

**if** (in\_array($colName, $this->headers)) {

$index = array\_search($colName, $this->headers);

}

unset($this->headers[$index]);

**foreach** ($this->table\_array **as** $key => $value) {

unset($this->table\_array[$key][$index]);

}

}

**function** **renameCol**()

{

$k = **1**;

**foreach** (func\_get\_args() **as** $aaa)

{

**if** (in\_array($aaa, $this->headers))

{

$k = $k + **1**;

$index = array\_search($aaa, $this->headers);

$this->headers[$index] = $k;

}

**else**

{

**print** "**\n** No such {$aaa} column";

**break**;

}

**print** "**\n**";

}

}

**function** **output**()

{

**print** "<pre>";

**foreach** ($this->headers **as** $header) **print** "<b>$header </b> ";

**print** "**\n**";

**foreach** ($this->table\_array **as** $y)

{

**foreach** ($y **as** $xcell) **print** "$xcell ";

**print** "**\n**";

}

**print** "</pre>";

}

}

?>