

**Note:** there will be 5 points dedicated to clean code, good writing and your added comments.

### Problem I (23 pts) [Associative Table]

In this PHP exercise, use the following list including countries and cities:

*Tokyo, Japan; Mexico City, Mexico; Baghdad, Iraq; Damascus, Syria; Cairo, Egypt.*

- Create an associative array, using countries as keys, cities as values.
- Create a form for the user, with instructions Please choose a city:
  - Follow this request with a selection field for the 5 cities, with the options created from the table. When the user clicks the SUBMIT send button, return the following sentence: « \$city is in \$country », where \$city is the value chosen by the user and \$country is its key.

### Problem II (22 pts) [Directory, File]

Write a PHP function CountFilesTypes (\$rep) which takes a directory as parameter. The function displays the total number of files in the directory, as well as the number of files for each extension. Do not count the directories. Example:

*The Docs directory contains 14 files.*

*docx : 6*

*pdf : 5*

*txt : 3*

### Problem III (35 pts) [DB, Session]

Consider the "music" database containing the "Basses" table (this is a category of guitar) with the following attributes: Code varchar2(50), name varchar2(50), price float(2)

#### Basses

Code	Name	Price	
precision	Fender Precision	799.99	Delete
hofner	Hofner Icon	499.99	Delete
base123	Hello Base	550.00	Delete

#### Add Product

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Write a php code that performs the following tasks:

- a) Connection to the database.
- b) Display of the contents of the "Basses" table with a *delete* button for each record.
- c) Display of a form below the table that allows you to add a new record.
- d) When you click on delete this allows you to delete the recording.

#### **Problem IV (15 pts) [Classic]**

Write a php code that saves the user's choice each time the page is visited and displays the choices on the 4th visit. The page contains a simple form that asks the user to choose a color from a drop-down list. On the 4th visit, the color chosen is displayed for each visit. Example:

*Visit 1: white*

*Visit 2: red*

*Visit 3: green*

Good luck