

## PHP Lab Sheet

For Exercises 9.1 through 9.6 write functions codes to test them.

9.1 *Parameter:* An array of strings.

*Return value:* A list of the unique strings in the parameter array.

9.2 *Parameter:* An array of numbers.

*Return value:* The average and median of the numbers in the parameter array.

9.3 *Parameter:* An array of strings.

*Return value:* A list of the three strings that occur most frequently in the parameter array.

9.4 *Parameters:* An array of numbers (pass by value) and two arrays (pass by reference).

*Return value:* None.

*Result:* The first pass-by-reference parameter must have the values of the given array that are greater than zero; the second must have the values that are less than zero.

9.5 *Parameter:* A string of numbers separated by spaces.

*Return value:* The first four-digit number in the string; false if none.

9.6 *Parameter:* A string containing words that are delimited on the left with spaces and on the right with spaces, commas, periods, or question marks.

*Return value:* The three most common words in the string that have more than three letters.

9.8 Write an HTML document that includes an anchor tag that calls a PHP document. Also, write the called PHP script document, which returns a randomly chosen greeting from a list of five different greetings. The greetings must be stored as constant strings in the script. A random number between 0 and 4 can be computed with these lines:

```
# Set the seed for mtrand with the number of microseconds
# since the last full second of the clock
mt_srand((double)microtime() * 1000000);
$number = mtrand(0, 4); # Computes a random integer 0-4
```

- 9.9 Write an HTML document to create a form with the following capabilities:
- a. A text widget to collect the user's name
  - b. Four checkboxes, one each for the following items:
    - i. Four 25-watt light bulbs for \$2.39
    - ii. Eight 25-watt light bulbs for \$4.29
    - iii. Four 25-watt long-life light bulbs for \$3.95
    - iv. Eight 25-watt long-life light bulbs for \$7.49
  - c. A collection of three radio buttons that are labeled as follows:
    - i. Visa
    - ii. Master Card
    - iii. Discover
- 9.10 Write a PHP script that computes the total cost of the ordered light bulbs from Exercise 9.9 after adding 6.2 percent sales tax. The program must inform the buyer of exactly what was ordered, in a table.
- 9.14 Write an HTML document to provide a form that collects names and telephone numbers. The phone numbers must be in the format ddd-ddd-dddd. Write a PHP script that checks the submitted telephone number to be sure that it conforms to the required format and then returns a response indicating whether the number was correct.