Dr. Dieaa I. Nassr Academic Year 2017/2018 – 2nd Semester PHP Lab. 2nd Level. Web Programming (comp-206) Math. Dept., CS Division.

PHP Lab#2

Objective

- How to build PHP arrays and associative array
- Looping through array and associative array
- How to process array of arrays
- How to use some built-in array functions
- Defining Your Own PHP Functions
- Programming in Multiple Files

Note: The output of your PHP code should be in HTML table format.

- Q1) Write a PHP code that builds an array of the first 100 prime numbers. Then
 - 1. Print out the sum of these primes and their average
 - 2. Print out positions of primes that contains digit 3
- Q2) Let A be an array of all positive integers smaller than 102 and divisible by 3 and B be an array of all positive integers smaller than 170 and divisible by 5.
- 1. Compute the difference C[i] = A[i]-B[i].
- 2. **Compute D[i]= A[i]2-B[i]2**
- 3. Compute E[i] = A[i]2+B[i]2-A[i]B[i].
- Q3) Build an array of strings and contains names of your friends. Then,
 - 1- Find all names contains the substring "he"

- 2- Display names of your friends where the name with word Ahmed colored with blue.
- Q4) Write a PHP that builds a tow dimensional array M of size (10×10) . The code will fill each location in M by its index summation (M[i][j]=i+j). Then print the summation of the elements located at the circumference.
- Q5) Write a PHP code that contains the following functions:
 - 1- displayTableFormat(\$arr): display the array \$arr in HTML table format.
 - 2-getAverage(\$arr): return the average of numbers in \$arr
 - 3- getVariance(\$arr): return the variance of numbers in \$arr,

$$variance = \sum_{i}^{n} (arr[i] - average)^{2}$$

Q6) Let \$SArr be an array of students, where every key index of \$SArr contains name, dept, marks, e.g.,

Show how to perform the following:

- 1- A function to display all students in physics department.
- 2- A function to return an array of all students whose marks greater than 78.
- 3- Show how to calculate the average and variance of students whose marks greater than 78.