

## Midterm

1. PHP is a general-purpose scripting language that is especially suited to server-side web development, in which case PHP generally runs on a web server. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content or dynamic images used on websites or elsewhere.
2. Those frontend components may in turn, pull data or other information from backend components. So a web application written in PHP would be frontend but server side . However, if the web pages contained any javascripted code would be executed client-side .
3. A list can be found at the PHP documentation for double-quoted strings.  
    \n : linefeed (LF or 0x0A (10) in ASCII)  
    \r : carriage return (CR or 0x0D (13) in ASCII)  
    \t horizontal tab (HT or 0x09 (9) in ASCII)  
    \v vertical tab (VT or 0x0B (11) in ASCII) (since PHP 5.2.5)  
    \e escape (ESC or 0x1B (27) in ASCII) (since PHP 5.4.0)
4. php // Declare the variable 'string' and assign it a value. // The <br> is the HTML equivalent to a new line. \$string = 'Hello World! <br>'; // You can echo the variable, similar to the way you would echo a string. echo \$string; // You could also use print.
5. The strtolower() function is used to convert a string into lowercase. This function takes a string as parameter and converts all the uppercase english alphabets present in the string to lowercase. All other numeric characters or special characters in the string remains unchanged.
6. The ucfirst() function converts the first character of a string to uppercase. Related functions: ... ucwords() - converts the first character of each word in a string to uppercase. strtoupper() - converts a string to uppercase.
7. In the C Programming Language, the strcmp function returns a negative, zero, or positive integer depending on whether the object pointed to by s1 is less than, equal to, or greater than the object pointed to by s2.
8. Local variable is declared inside a function whereas Global variable is declared outside the function. Local variables are created when the function has started execution and is lost when the function terminates, on the other hand, Global variable is created as execution starts and is lost when the program ends.
9. <?php  
    \$first\_number = 10;  
    \$second\_number = 20;  
    \$sum\_total = \$second\_number \* \$first\_number;  
    print (\$sum\_total);  
?>

10. Two dimensional arrays are considered by C/C++ to be an array of ( single dimensional arrays ). For example, "int numbers[ 5 ][ 6 ]" would refer to a single dimensional array of 5 elements, wherein each element is a single dimensional array of 6 integers.