<?php

/**************************Practical PHP*******************/

// Enables viewing of spaces

/** printf method, precision setting ***/

printf("The result is: %.2f\n", 123.457/15);

// Pad to 10 space

printf("The result is: %.10f\n", 123.457/15);

// Fill the white space by *, like '*

printf("The result is: %*10f\n", 123.457/15);

/**************************String Padding*******************/

$name = "Strawberry";

printf("%s\n", $name);

printf("%15s\n", $name); // Right justify with spaces to width 15

printf("%*-15s\n", $name); // Left justify with spaces to width 15

/**************************Use sprintf to store output to a variable. Prints it out later*************/

$username = "Kim";

$output = sprintf("Hello, %s.\n Welcome to math game!", $username);

echo "$output\n";

/**************************Date and time function*************/

/** PHP manual
   Listed of supported timezones
   ***/

/* Return the default timezone */

echo date_default_timezone_get();

echo date_default_timezone_set("America/Los_Angeles");

/*time():

   echo "\n.time()."\n";

$twohour = time()-2*60*60;

// Major date function format specifiers on page 145

Y: Year, 4 digits, 0000 to 9999
y: Year, 2 digits, 00 to 99
M: Month name, three letters Jan to Dec
F: Month name, January to December
m: Month number with leading zeros, 01 to 12
n: Month number with no leading zeros 1 to 12
D: Day of the week, three letters Mon to Sun
d: Day of the month, two digits, with leading zeros 01 to 31
h: Hour of the day, 12-hour format, with leading zeros 01 to 12
g: Hour of the day, 12-hour format, no leading zeros 1 to 12
H: Hour of the day, 24-hour format, with leading zeros 01 to 23
G: Hour of the day, 24-hour format, no leading zeros 1 to 23
i: Minutes, with leading zeros 00 to 59
s: Seconds, with leading zeros 00 to 59

*/

echo date("\nh:i:s a M d, Y\n", time());

echo date("\nh:i:s A n/j/Y \n", $twohour);

echo date("\nY-m-d\n", time());

/* mktime(hour, minute, second, month, day, year): returns a timestamp of a given date */

$stamp1 = mktime(0, 0, 0, 1, 1, 2020);

echo date("m/d/Y\n", $stamp1);

/* checkdate($month, $day, $year): */

$month = 2; // 1 : 12
$day = 30;
$year = 2020; //1 : 32767

echo checkdate($month, $day, $year) ? "\nDate is valid\n": "\nDate is invalid\n";