<?php

// Print the following

echo 'These are what I "ordered" -<br>';

echo "\t1. My son's watch<br>";

echo "\t2. 12 cans of soda<br>";

echo "\t3. Some chips - <br>\t\tLays<br>\t\tPringles<br><br>";

echo "Yes. the order id is \\5412\\";

// Print the following

$ans = 125 / pi();

$ans2 = 7e9 \* 7.139 / 100;

$ans3 = $ans2 \* 0.01;

$ans4 = $ans3 \* 365;

echo "125 divided by pi is {$ans}<br><br>";

echo "The current world population is about 7000000000 <br>Lets say 7.139 % of the are financially stable <br>That makes 7e9 \* 7.139 / 100 = {$ans2} people <br> If {$ans2} people each donate $0.01 a day, imagine how much money we can collect! <br>{$ans2} \* 0.01 would be {$ans3} dollars a day! <br>Which is equivalent to {$ans4} dollars a year!<br>";

// 1

function sumify($num1, $num2) {

if ($num1 === $num2) {

return ($num1 + $num2) \* 3;

}

else {

return $num1 + $num2;

}

};

echo sumify(1,2) . "<br>"; // 3

echo sumify(3,2) . "<br>"; // 5

echo sumify(2,2) . "<br>"; // 12

// 2

function absDiff($n) {

if ($n > 51) {

return abs(($n - 51) \* 3);

}

else {

return abs($n - 51);

}

};

echo absDiff(53) . "<br>"; // 6

echo absDiff(30) . "<br>"; // 21

echo absDiff(51) . "<br>"; // 0

// 3

function isItThirty($num1, $num2) {

if ($num1 === 30 || $num2 === 30 || $num1 + $num2 === 30) {

return true;

}

else {

return false;

}

};

echo var\_dump(isItThirty(30,0)) . "<br>"; // 1

echo var\_dump(isItThirty(25,5)) . "<br>"; // 1

echo var\_dump(isItThirty(20,30)) . "<br>"; // 1

echo var\_dump(isItThirty(20,25)) . "<br>"; // 0

// 4

function closeNumber($num) {

if (abs($num - 100) <= 10 || abs($num - 200) <= 10) {

return true;

}

else {

return false;

}

};

echo var\_dump(closeNumber(103)) . "<br>"; // 1

echo var\_dump(closeNumber(90)) . "<br>"; // 1

echo var\_dump(closeNumber(89)) . "<br>"; // 0

// 10

function threeOrSeven($num1) {

if ($num1 % 3 === 0 || $num1 % 7 === 0) {

return true;

}

else {

return false;

}

};

echo var\_dump(threeOrSeven(3)) . "<br>"; // 1

echo var\_dump(threeOrSeven(14)) . "<br>"; // 1

echo var\_dump(threeOrSeven(12)) . "<br>"; // 1

echo var\_dump(threeOrSeven(37)) . "<br>"; // 0

function tempCheck($num1, $num2) {

if (($num1 < 0 && $num2 > 100) || ($num1 > 100 && $num2 < 0)) {

return true;

}

else {

return false;

}

};

echo var\_dump(tempCheck(120, -1)) . "<br>"; // 1

echo var\_dump(tempCheck(-1, 120)) . "<br>"; // 1

echo var\_dump(tempCheck(2, 120)) . "<br>"; // 0

// 15

function rangeCheck($num1, $num2, $num3) {

if (($num1 >= 20 && $num1 <= 50) || ($num2 >= 20 && $num2 <= 50) || ($num3 >= 20 && $num3 <= 50)) {

return true;

}

else {

return false;

}

};

echo var\_dump(rangeCheck(11, 20, 12)) . "<br>"; // 1

echo var\_dump(rangeCheck(30, 30, 17)) . "<br>"; // 1

echo var\_dump(rangeCheck(25, 35, 50)) . "<br>"; // 1

echo var\_dump(rangeCheck(15, 12, 8)) . "<br>"; // 0

// 42

function threeOrSevenTwo($num) {

if (($num % 3 === 0 && $num % 7 !== 0) || ($num % 3 !== 0 && $num % 7 === 0)) {

return true;

}

else {

return false;

}

};

echo var\_dump(threeOrSevenTwo(3)) . "<br>"; // 1

echo var\_dump(threeOrSevenTwo(7)) . "<br>"; // 1

echo var\_dump(threeOrSevenTwo(21)) . "<br>"; // 0

// 43

function twoWithinTen($num) {

if ($num % 10 <= 2) {

return true;

}

elseif ($num < 10) {

if (10 - $num <= 2) {

return true;

}

}

else {

return false;

}

};

echo var\_dump(twoWithinTen(3)) . "<br>"; // 0

echo var\_dump(twoWithinTen(7)) . "<br>"; // 0

echo var\_dump(twoWithinTen(8)) . "<br>"; // 1

echo var\_dump(twoWithinTen(21)) . "<br>"; // 1

// Hash Triangle

function hashTriangle() {

$hash = "#";

for ($i = 0; $i <= 6; $i++) {

echo $hash . "<br>";

$hash = $hash . "#";

}

}

hashTriangle();

// FizzBuzz

function fizzBuzz() {

for ($i = 1; $i <= 100; $i++) {

if ($i % 3 === 0 && $i % 5 === 0) {

echo "FizzBuzz <br>";

}

elseif ($i % 3 === 0) {

echo "Fizz <br>";

}

elseif ( $i % 5 === 0) {

echo "Buzz <br>";

}

else {

echo "{$i} <br>";

}

};

};

fizzBuzz();

// Ascending Numbers

function ascendingNumbers() {

for ($i= 1; $i <= 50; $i++) {

echo $i . "<br>";

}

for ($i= 1; $i < 25; $i++) {

echo $i . "<br>";

}

for ($i= 1; $i < 25; $i++) {

if ($i % 2 === 1) {

echo $i . "<br>";

}

}

for ($i= 1; $i < 25; $i++) {

if ($i % 3 === 0) {

echo $i . "<br>";

}

}

for ($i= 1; $i <= 50; $i++) {

if ($i % 5 === 0) {

echo $i . "<br>";

}

}

for ($i= 1; $i < 50; $i++) {

if ($i % 2 === 0 && $i % 3 === 0) {

continue;

}

else if ($i % 2 === 0) {

echo $i . "<br>";

}

else if ($i % 3 === 0) {

echo $i . "<br>";

}

}

for ($i= 1; $i < 100; $i++) {

if ($i % 12 === 0) {

continue;

}

else if ($i % 2 === 0) {

echo $i . "<br>";

}

else if ($i % 3 === 0) {

echo $i . "<br>";

}

}

}

ascendingNumbers();

// Descending Numbers

function descendingNumbers() {

for ($i= 50; $i >= 1; $i--) {

echo $i . "<br>";

}

for ($i= 25; $i >= 1; $i--) {

echo $i . "<br>";

}

for ($i= 25; $i >= 1; $i--) {

if ($i % 2 === 1) {

echo $i . "<br>";

}

}

for ($i= 25; $i >= 1; $i--) {

if ($i % 3 === 0) {

echo $i . "<br>";

}

}

for ($i= 50; $i >= 1; $i--) {

if ($i % 5 === 0) {

echo $i . "<br>";

}

}

for ($i= 50; $i >= 1; $i--) {

if ($i % 2 === 0 && $i % 3 === 0) {

continue;

}

else if ($i % 2 === 0) {

echo $i . "<br>";

}

else if ($i % 3 === 0) {

echo $i . "<br>";

}

}

for ($i= 100; $i >= 1; $i--) {

if ($i % 12 === 0) {

continue;

}

else if ($i % 2 === 0) {

echo $i . "<br>";

}

else if ($i % 3 === 0) {

echo $i . "<br>";

}

}

}

descendingNumbers();

// Multiples of 3

function multiplyThree() {

for ($i = 1; $i <= 10; $i++) {

$num = $i \* 3;

echo "3x{$i} = {$num} <br>";

}

}

multiplyThree();

// Multiples of 17

function multiplySeventeen() {

for ($i = 1; $i <= 10; $i++) {

$num = $i \* 17;

echo "17x{$i} = {$num} <br>";

}

}

multiplySeventeen();

?>