

# **PHP Programming Tasks Report**

Nested Conditional Logic & String Manipulation Exercises

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This document presents two PHP programming tasks, detailing their aims, problem statements, constraints, procedures, implementations, sample outputs, and conclusions.

# Task 1: Largest of Three Numbers Using Nested If

## AIM

Determine the largest value among three given integers using nested conditional statements.

## Problem Statement

Build a PHP CLI program that accepts three predefined integers and evaluates them through nested if statements to identify the maximum.

## Constraints

The logic must rely on nested if statements rather than built-in max functions.

The program should clearly display the input numbers and the computed largest number.

## Procedure

- 1 Define an array containing three integer values.
- 2 Assign the first value to a variable representing the current largest number.
- 3 Compare the current largest with the second number using a nested if block and update when needed.
- 4 Within the appropriate branches, compare against the third number to ensure the final value is the maximum.
- 5 Print both the initial numbers and the final result for verification.

## Program

```
/**  
 * Program: Largest of three numbers using nested if statements.  
 * Usage: php task1_largest.php  
 */  
  
$numbers = [56, 92, 37]; // Sample dataset; adjust as needed.  
  
$a = $numbers[0];  
$b = $numbers[1];  
$c = $numbers[2];  
  
$largest = $a;  
  
if ($largest < $b) {  
    if ($b > $c) {  
        $largest = $b;  
    } else {  
        $largest = $c;  
    }  
} else {  
    if ($largest < $c) {  
        $largest = $c;  
    }  
}
```

```
}

}

echo "Input numbers: {$a}, {$b}, {$c}\n";
echo "Largest number: {$largest}\n";
```

## ***Output***

Screenshot of the CLI output captured after executing the PHP script:

```
Input numbers: 56, 92, 37
Largest number: 92
```

## ***Conclusion***

Nested conditionals accurately identified the largest integer, demonstrating correct control flow for comparative evaluation.

# Task 2: Reverse a String Using strrev()

## AIM

Reverse a predefined string using PHP's built-in strrev function.

## Problem Statement

Create a PHP CLI script that stores a phrase in a string variable, applies strrev() to reverse it, and prints both the original and reversed outputs.

## Constraints

The solution must use the strrev() function to handle string reversal.

Program output needs to highlight both the original string and its reversed counterpart clearly.

## Procedure

- 1 Declare a string variable with the phrase targeted for reversal.
- 2 Invoke PHP's strrev() function and store the reversed value.
- 3 Display the original and reversed strings on separate lines for readability.

## Program

```
/*
 * Program: Reverse a string using strrev.
 * Usage: php task2_reverse.php
 */

$input = "Nested If Challenge";
$reversed = strrev($input);

echo "Original string: {$input}\n";
echo "Reversed string: {$reversed}\n";
```

## Output

Screenshot of the CLI output captured after executing the PHP script:

```
Original string: Nested If Challenge
Reversed string: egnellahC fI detseN
```

## ***Conclusion***

The `strrev()` function reversed the input phrase precisely, confirming the utility of PHP's standard library for string manipulation.