Question 1

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Ascending Order</title>
</head>
<body>
   <h2>Enter Three Numbers</h2>
   <form method="post">
      <label for="num1">Number 1:</label>
      <input type="text" id="num1" name="num1"><br><br>

      <label for="num2">Number 2:</label>
      <input type="text" id="num2" name="num2"><br><br>

      <label for="num3">Number 3:</label>
      <input type="text" id="num3" name="num3"><br><br>

      <input type="submit" name="submit" value="Sort Numbers">
   </form>

   <?php
   // Check if form is submitted
   if(isset($_POST['submit'])){
      // Retrieve input values
      $num1 = $_POST['num1'];
      $num2 = $_POST['num2'];
```

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        $num3 = $_POST['num3'];

        // Convert inputs to integers
        $num1 = intval($num1);
        $num2 = intval($num2);
        $num3 = intval($num3);
        // Sort numbers in ascending order
        $numbers = array($num1, $num2, $num3);
        sort($numbers);
        // Output the sorted numbers
        echo "<h2>Sorted Numbers:</h2>";
        foreach ($numbers as $number) {
            echo $number . "<br>";
        }
    }
    ?>
</body>
</html>
```

QUESTION 2

```
<?php

function smallestIndex($array, $size) {
    if ($size <= 0) {
        return -1; // Return -1 if the array is empty or size is invalid
    }

    $minIndex = 0; // Assume the first element is the smallest
    for ($i = 1; $i < $size; $i++) {
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        if ($array[$i] < $array[$minIndex]) {
            $minIndex = $i; // Update the index of the smallest element if found
        }
    }

    return $minIndex;
}
// Test the function
$array = [5, 3, 9, 1, 7];
$size = count($array);
$smallestIndex = smallestIndex($array, $size);
if ($smallestIndex != -1) {
    echo "The smallest element is at index: " . $smallestIndex;
} else {
    echo "Array is empty or size is invalid.";
}
?>
```

QUESTION 3

```
<?php

// Prompt the user to input a string
echo "Enter a string: ";
$inputString = readline();

// Convert the string to uppercase using a character array
$charArray = str_split($inputString);
$uppercaseString = "";
foreach ($charArray as $char) {
    $uppercaseString .= strtoupper($char);
```

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}
// Output the string in uppercase
echo "Uppercase string: " . $uppercaseString . "\n";
?>
```

QUESTION 4

```
<?php

// Function to add two matrices
function addMatrices($matrix1, $matrix2, $rows, $columns) {
    $resultMatrix = array();
    for ($i = 0; $i < $rows; $i++) {
        for ($j = 0; $j < $columns; $j++) {
            $resultMatrix[$i][$j] = $matrix1[$i][$j] + $matrix2[$i][$j];
        }
    }
    return $resultMatrix;
}

// Function to display a matrix
function displayMatrix($matrix, $rows, $columns) {
    for ($i = 0; $i < $rows; $i++) {
        for ($j = 0; $j < $columns; $j++) {
            echo $matrix[$i][$j] . " ";
        }
        echo "\n";
    }
}
```

```
// Prompt the user to enter the size of the matrices
echo "Enter the number of rows for the matrices: ";
$rows = intval(readline());
echo "Enter the number of columns for the matrices: ";
$columns = intval(readline());

// Initialize matrices
$matrix1 = array();
$matrix2 = array();

// Prompt the user to input elements for matrix 1
echo "Enter elements for matrix 1:\n";
for ($i = 0; $i < $rows; $i++) {
    echo "Row " . ($i + 1) . ":\n";
    for ($j = 0; $j < $columns; $j++) {
        echo "Element " . ($j + 1) . ": ";
        $matrix1[$i][$j] = intval(readline());
    }
}

// Prompt the user to input elements for matrix 2
echo "Enter elements for matrix 2:\n";
for ($i = 0; $i < $rows; $i++) {
    echo "Row " . ($i + 1) . ":\n";
    for ($j = 0; $j < $columns; $j++) {
        echo "Element " . ($j + 1) . ": ";
        $matrix2[$i][$j] = intval(readline());
    }
}
```

```
// Compute the addition of the matrices
$resultMatrix = addMatrices($matrix1, $matrix2, $rows, $columns);

// Display the result
echo "\nMatrix 1:\n";
displayMatrix($matrix1, $rows, $columns);

echo "\nMatrix 2:\n";
displayMatrix($matrix2, $rows, $columns);

echo "\nSum of the matrices:\n";
displayMatrix($resultMatrix, $rows, $columns);

?>
```

QUESTION 5

```
<?php

// Declare the array alpha of 50 components
$alpha = array();

// Initialize the array according to the given conditions
for ($i = 0; $i < 50; $i++) {
    if ($i < 25) {
        $alpha[$i] = pow($i, 2); // Square of the index variable for the first 25 components
    } else {
        $alpha[$i] = 3 * $i; // Three times the index variable for the last 25 components
    }
```

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}

// Output the array with 10 elements per line
echo "Array alpha:\n";
for ($i = 0; $i < 50; $i++) {
    echo $alpha[$i] . " ";
    // Print a newline after every 10 elements
    if (($i + 1) % 10 == 0) {
        echo "\n";
    }
}

?>
```