AWT Practical

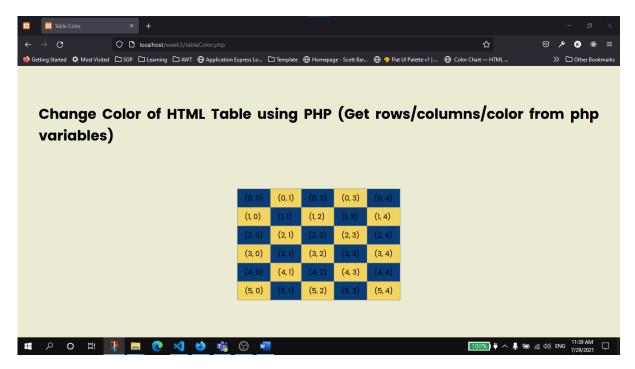
Week - 3 Task

1. Change Color of HTML Table using PHP (Get rows/columns/color from php variables)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;7</pre>
00;800;900&display=swap" rel="stylesheet">
  <link rel="stylesheet" href="css/tableColor.css">
  <title>Table Color</title>
  <style>
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: "Poppins", sans-serif;
    body {
      height: 100vh;
      width: 100vw;
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      padding: 1em 3em;
      background-color: #ebebd3;
    body h1 {
      margin-bottom: 3em;
      text-align: justify;
    table {
      border-collapse: collapse;
```

```
}
   tr,
   td {
     border: 1px solid #949494;
     padding: 8px;
   body table td {
     padding: 0.5em 1em;
  </style>
</head>
<body>
  <h1>Change Color of HTML Table using PHP (Get rows/columns/color from php v
ariables)</h1>
 <?php
   rows = 6;
   cols = 5;
   $color = '#fff';
   for ($i = 0; $i < $rows; $i++) {
     echo "";
     for (\$j = 0; \$j < \$cols; \$j++) {
       if ((\$i + \$j) \% 2 == 0) {
        $color = '#083d77';
       } else {
         $color = '#f4d35e';
       echo "($i, $j)";
     echo "";
   ?>
  </body>
</html>
```

Output:



- 2. Get Password from PHP variable & Display following info in table
 - Count Total Characters
 - Count Total Number of digits
 - Count Total Special Characters
 - Display Password strength
 - Not Acceptable
 - o Weak
 - Strong

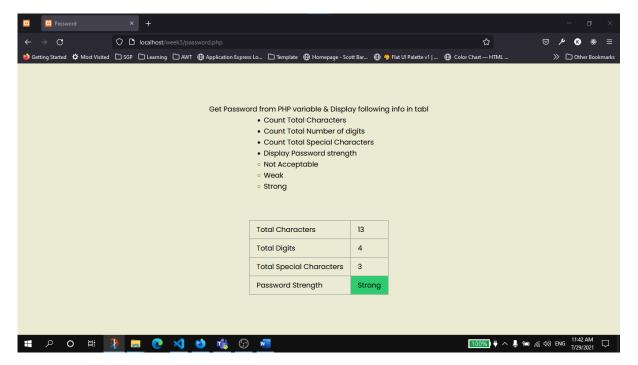
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;7</pre>
00;800;900&display=swap" rel="stylesheet">
  <title>Password</title>
  <style>
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: "Poppins", sans-serif;
```

```
}
   body {
     height: 100vh;
     width: 100vw;
     display: flex;
     flex-direction: column;
     justify-content: center;
     align-items: center;
     padding: 1em 3em;
     background-color: #ebebd3;
   body h1 {
     margin-bottom: 3em;
     text-align: justify;
   }
   table {
     border-collapse: collapse;
   tr,
   td {
     border: 1px solid #949494;
     padding: 8px;
     margin-bottom: 2em;
   body table td {
     padding: 0.5em 1em;
 </style>
</head>
<body>
  Get Password from PHP variable & Display following info in tabl
 <l
   Count Total Characters
   Count Total Number of digits
   Count Total Special Characters
   Display Password strength
     <l
```

```
Not Acceptable
      >Weak
      Strong
    <?php
  $password = "krutik2001!@#";
  $totalChar = strlen($password);
   $totalDigits = preg_match_all("/[0-9]/", $password);
  $totalSpecialChar = preg_match_all("/[$&+,:;=?@#|'<>.-
^*()%!]/", $password) - $totalDigits;
   $passStrength = 'Not Acceptable';
  $color = '#e74c3c';
  if ($totalChar > 8 && ($totalDigits == 0 || $totalSpecialChar == 0)) {
    $passStrength = "Week";
    $color = '#f1c40f';
   if ($totalChar > 8 && $totalDigits != 0 && $totalSpecialChar != 0) {
    $passStrength = "Strong";
    $color = '#2ecc71';
   echo "
      Total Characters
      $totalChar
    Total Digits
      $totalDigits
    Total Special Characters
      $totalSpecialChar
    Password Strength
      $passStrength
    "
   ?>
 </body>
```

</html>

Output:



3. Explore and experiments with builtin string functions/methods - 20 minimum

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;7</pre>
00;800;900&display=swap" rel="stylesheet">
  <title>String Functions/Methods</title>
  <style>
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: "Poppins", sans-serif;
    body {
```

```
display: flex;
      flex-direction: column;
     /* justify-content: center; */
      align-items: center;
      padding: 1em 3em;
      background-color: #ebebd3;
    body h2 {
     margin-bottom: 2em;
      text-align: center;
    table {
      border-collapse: collapse;
    tr,
    td {
      border: 1px solid #000;
      padding: 8px;
    tr:nth-child(even) {
     background-color: #cacaca;
     margin-bottom: 2em;
     display: flex;
     width: 70%;
     justify-content: space-between;
    body table td {
      padding: 0.5em 1em;
  </style>
</head>
<body>
```

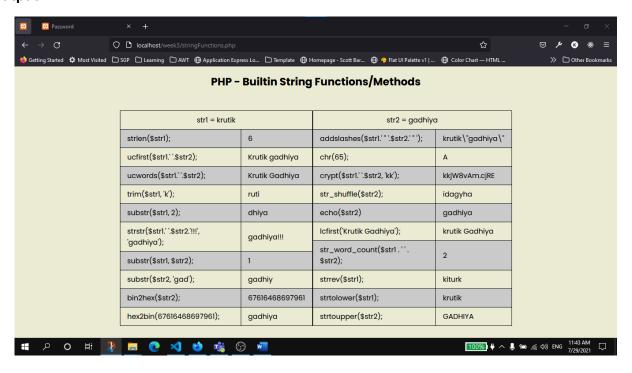
```
<h2>PHP - Builtin String Functions/Methods</h2>
<div>
 <?php
  $str1 = 'krutik';
  $str2 = 'gadhiya';
  echo "
  str1 = $str1
  ";
  ?>
  <?php
  $temp = strlen($str1);
  echo "
  strlen(\$strl);
  $temp
  ";
  ?>
  <?php
  $temp = ucfirst($str1 . " " . $str2);
  echo "
  ucfirst(\$str1.' '.\$str2);
  $temp
  ";
  ?>
  <?php
  $temp = ucwords($str1 . " " . $str2);
  echo "
  ucwords(\$str1.' '.\$str2);
  $temp
  ";
  ?>
  <?php
  $temp = trim($str1, 'k');
  echo "
  trim(\$str1, 'k');
  $temp
  ";
   ?>
  <?php
```

```
// substr() gets the substring from the given index
temp = substr(str2, 2);
echo "
substr(\$str1, 2);
$temp
";
?>
<?php
$temp = strstr($str1 . " " . $str2 . '!!!', 'gadhiya');
echo "
strstr(\$str1.' '.\$str2.'!!!', 'gadhiya');
$temp
";
?>
<?php
// strcmp() compares the strings and give 0 (same str),1 (greater than)
$temp = strcmp($str1, $str2);
echo "
substr(\$str1, \$str2);
$temp
";
?>
<?php
// chop() Removes whitespace or other characters from the right end of
$temp = chop($str2, 'gad');
echo "
substr(\$str2, 'gad');
$temp
";
?>
<?php
// bin2hex() Converts a string of ASCII characters to hexadecimal value
$temp = bin2hex($str2);
echo "
bin2hex(\$str2);
$temp
";
?>
<?php
```

```
$temp1 = hex2bin($temp);
 echo "
 hex2bin($temp);
 $temp1
 ";
 ?>
<?php
 echo "
 str2 = $str2
 ";
 ?>
 <?php
 $temp = addslashes($str1 . '"' . $str2 . '"');
 echo "
 addslashes(\$str1.' \" '.\$str2.' \" ');
 $temp
 ";
 ?>
 <?php
 // chr() Returns a character from a specified ASCII value
 temp = chr(65);
 echo "
 chr(65);
 $temp
 ";
 ?>
 <?php
 $temp = crypt($str1 . " " . $str2, 'kk');
 echo "
 crypt(\$str1.' '.\$str2, 'kk');
 $temp
 ";
 ?>
 // str_shuffle() Randomly shuffles all characters in a string
 $temp = str_shuffle($str2);
 echo "
 str_shuffle(\$str2);
 $temp
 ";
```

```
<?php
echo "
echo(\$str2)
$str2
";
?>
<?php
$temp = lcfirst("Krutik Gadhiya");
echo "
lcfirst('Krutik Gadhiya');
$temp
";
?>
<?php
$temp = str_word_count($str1 . ' ' . $str2);
echo "
str_word_count(\$str1 . ' ' . \$str2);
$temp
";
?>
<?php
$temp = strrev($str1);
echo "
strrev(\$str1);
$temp
";
?>
<?php
$temp = strtolower($str1);
echo "
strtolower(\$str1);
$temp
";
?>
// strtoupper() Converts a string to uppercase letters
$temp = strtoupper($str2);
echo "
strtoupper(\$str2);
$temp
";
```

Output:



- 4. Experiments with following PHP Operators.
 - Arithmetic operators
 - Assignment operators
 - Comparison operators
 - Increment/Decrement operators
 - Logical operators (AND, OR, NOT)

- String operators
- Conditional assignment operators
- Bitwise operators

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;7</pre>
00;800;900&display=swap" rel="stylesheet">
  <title>Document</title>
  <style>
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: "Poppins", sans-serif;
    body {
      display: flex;
      flex-direction: column;
      /* justify-content: center; */
      align-items: center;
      padding: 1em 3em;
      background-color: #ebebd3;
    body h2 {
      margin-bottom: 2em;
      text-align: center;
    table {
      border-collapse: collapse;
    tr,
    td {
      border: 1px solid #000;
      padding: 8px;
    tr {
      background-color: #ebebd3;
```

```
tr:nth-child(even) {
     background-color: #cacaca;
     margin-bottom: 2em;
     display: flex;
     width: 70%;
     justify-content: space-between;
   body table td {
     padding: 0.5em 1em;
 </style>
</head>
<body>
   Arithmetic operators
   Comparison operators
   Increment/Decrement operators
   String operators
 <h2>Operators in PHP</h2>
 Arithmetic Operator<br>(+, -, /, *, %, **)
     <?php
        x = 10;
        y = 20;
        temp = x + y;
        echo "
        Addition
         $x + $y = $temp
         ";
         ?>
         <?php
         temp = x - y;
```

```
echo "
   Subtraction
   $x - $y = $temp
   ";
   ?>
   <?php
   temp = x * y;
   echo "
   Multiplication
   $x * $y = $temp
   ";
   ?>
   <?php
   temp = x / y;
   echo "
   Division
   $x / $y = $temp
   ";
   ?>
   <?php
   temp = x % y;
   echo "
   Modulo
   $x % $y = $temp
   ";
   ?>
   <?php
   temp = x ** y;
   echo "
   Power/Exponent
   <td$x ** $y = $temp
   ";
   ?>
  Assignment Operator<br>(=, +=, -=, *=, /=, %=)
 <?php
   $temp1 = $temp;
   temp = x;
   echo "
   Simple Assignment
```

```
";
    ?>
    <?php
    $temp1 = $temp;
    $temp += $x;
    echo "
     += 
    $temp1 += $x: $temp
    ";
    ?>
    <?php
    $temp1 = $temp;
    $temp *= $x;
    echo "
     *= 
    $temp1 *= $x: $temp
    ";
    ?>
    <?php
    $temp1 = $temp;
    $temp /= $y;
    echo "
     /= 
    $temp1 /= $y: $temp
    ";
    ?>
    <?php
    $temp1 = $temp;
    $temp -= $y;
    echo "
     -= 
    $temp1 -= $y: $temp
    ";
    ?>
    <?php
    $temp1 = $temp;
    $temp %= $x;
    echo "
     %= 
    $temp1 %= $x: $temp
    ";
    ?>
```

```
Comparison Operator<br>( ==, ===, !=, <,>, <=,>= )
 <?php
    if ($x == $y) {
     $temp = "same";
    } else {
      $temp = "different";
    echo "
    == (equals)
    \$x == \$y: $temp
    ";
    ?>
    <?php
    if ($x === $y) {
     $temp = "exactly same";
    } else {
      $temp = "exactly different";
    echo "
    === (identical)
    \$x == \$y: $temp
    ";
    ?>
   Logical Operator<br>(&& - and, || - or, ! - not, xor)
   <?php
    echo "
    && - and
    \$x && \$y: true if both are true
    ";
    ?>
    <?php
    echo "
    | - or
    \$x || \$y: true if any one is true
    ";
    ?>
    <?php
    echo "
```

```
xor - exclusive or
    \$x xor \$y: if one true then true else false
    ";
    ?>
  Increment-Decrement Operator<br>(++, --)
  <?php
    temp = x++;
    echo "
    ++ (Increment)
    \stemp = \stemp
    ";
    ?>
    <?php
    $temp = $y--;
    echo "
    -- (Decrement)
    \ temp = \ y--: \ temp
    ";
    ?>
  String Operator<br>(., .=)
 <?php
    $str1 = 'kk';
    $str2 = 'gg';
    $temp1 = $str1 . $str2;
    echo "
    . (string concatenation)
    \$temp1 = \$str1.\$str2: $temp1
    ";
    ?>
    <?php
    $temp1 .= $temp1;
    echo "
    .= (concatenation assignment)
    \$temp1 .= \$temp1: $temp1
```

```
";
    ?>
   Bitwise Operator<br>(&, |, ^, <<,>>, ~)
 <?php
    $temp = $x & $y;
    echo "
    & (bitwise and)
    \space* & \space* & temp
    ";
    ?>
    <?php
    $temp = $x | $y;
    echo "
    (bitwise or)
    \  \  )  temp = \  \  \  \  \  \  \  \  \  \   temp
    ";
    ?>
    <?php
    temp = x ^ y;
    echo "
    ^ (bitwise xor)
    \stemp = \sx ^ \sy: \stemp
    ";
    ?>
    <?php
    $temp = $x << 2;
    echo "
    << (shift left)</td>
    \space{2: $temp}
    ";
    ?>
    <?php
    $temp = $y >> 2;
    echo "
    >>> (shift right)
    \space* 2: $temp
    ";
    ?>
    <?php
    temp = ~$x;
```

Output:

