

PHP ARRAYS AND FUNCTIONS

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Program:	CPE III	Section:	A361













Intended Learning Outcomes:

1. Write a PHP script.
2. Use variables and constants, expressions, and control structures in PHP.

Write a for loop that displays a table with the 12 Chinese Zodiac signs as column headers, and with the years displayed below the appropriate column heading. The table must begin with the year 1912 and end with the current year (2021).

Use an array to store and display a picture of the appropriate sign below the text header in each column. Save the images as .jpg files and include them in the images folder inside your PHP project folder. The output must be styled in any corresponding manner using an external CSS stylesheet which will be embedded in the program through the link tag.

Here is a sample output:

Chinese Zodiac for loop											
Rat	Ox	Tiger	Rabbit	Dragon	Snake	Horse	Goat	Monkey	Rooster	Dog	Pig
											
1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2020	2021										

HTML with PHP Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="zodiac_styles.css">
  <title>Chinese Zodiac</title>
  <link rel="icon" type="image/png" href="img/dragon.png">
</head>
<body>
  <div class="container">
    <header>
      <h1>CHINESE ZODIAC for loop</h1>
    </header>
    <table>
      <tr>
        <?php
          // Chinese Zodiac signs
          $zodiacSigns = array("Rat", "Ox", "Tiger", "Rabbit", "Dragon",
"Snake", "Horse", "Goat", "Monkey", "Rooster", "Dog", "Pig");

          // Corresponding images for each sign
          $zodiacImages = array(
```

```
        "img/rat.png",
        "img/ox.png",
        "img/tiger.png",
        "img/rabbit.png",
        "img/dragon.png",
        "img/snake.png",
        "img/horse.png",
        "img/goat.png",
        "img/monkey.png",
        "img/rooster.png",
        "img/dog.png",
        "img/pig.png"
    );

    // Loop through each sign to create column headers with images
    foreach ($zodiacSigns as $index => $sign) {
        echo "<th>$sign<br><img src=\"{$zodiacImages[$index]}\"
alt=\"{$sign}\"></th>";
    }
    ?>
</tr>

<?php
    // Start year and end year
    $startYear = 1912;
    $endYear = date("Y"); // Current year

    // Loop through each year to create rows
    for ($year = $startYear; $year <= $endYear; $year++) {
        echo "<tr>";

        // Loop through each sign to create cells
        foreach ($zodiacSigns as $index => $sign) {
            echo "<td>$year</td>";
            $year++;
            if ($year > $endYear) {
                break 2; // Break out of both inner and outer loops
            }
        }

        echo "</tr>";
        $year --;
    }
    ?>
</table>
</div>
</body>
</html>
```

CSS Source Code:

```
*{
    margin:0;
    padding: 0;
}

body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    display: flex;
    align-items: center;
    justify-content: center;
    height: 100vh;
    background-image: url('img/china 2.webp'); /* Replace 'your-background-
image.jpg' with the actual path to your image */
    background-size: cover; /* Cover the entire viewport */
    background-position: center; /* Center the background image */
    background-repeat: no-repeat; /* Do not repeat the background image */
}

.container {
    max-width: 80%;
    text-align: center;
    border: 10px solid goldenrod;
}

header{
    background-color: #e00909;
    padding: 20px;
    margin-bottom: 0;
}

h1 {
    color: #ffde59;
    text-align: center;
}

table {
    width: 100%;
    border-collapse: collapse;
    margin-top: 0;
    background-color: wheat;
}

th, td {
    padding: 10px;
    border: 2px solid #ddd;
    text-align: center;
    background-color: wheat;
}

th {
    background-color: #e00909;
    color: white;
    margin-top: 0;
}
```

Output


CHINESE ZODIAC for loop

Rat	Ox	Tiger	Rabbit	Dragon	Snake	Horse	Goat	Monkey	Rooster	Dog	Pig
1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2020	2021	2022	2023								

Findings and Observations:

In the guided experiments, I acquired the skill of running local host websites using Xampp and PHP. It is complemented by additional insights from online tutorials on running PHP efficiently without file transfers by utilizing .bat files. Despite the initial challenges posed by the unfamiliarity of PHP as a language, my proficiency grew as I combined it with existing HTML and CSS knowledge to design and overcome hurdles.

The coding exercise, focusing on PHP arrays and functions, proved to be a rewarding challenge. After investing around five hours, I successfully crafted a PHP script. The script utilized arrays to dynamically display a table featuring the 12 Chinese Zodiac signs as column headers, accompanied by the respective years. Each column further incorporated images stored in an array and styled using an external CSS stylesheet. The visual appeal of the output was enhanced through meticulous CSS styling, contributing to a well-presented final result.