Introduction

This was our first introduction to the PHP language and was intended to be a basic exercise to help us understand the interactions between HTML and PHP. We were shown the basics of the PHP echo function and how to create our own functions. One suggestion was to create a calendar using the ability to make loops in PHP, and I stuck with that idea.

Description

My calendar was pretty basic on the user end. It simply displays the current date at the top of the screen and displays a calendar corresponding to the current month, with today's date highlighted. The only interaction was that all the squares on the calendar would turn a pastel blue if clicked.

In order to obtain information on the current date, month, etc., I used the pre-made `date()` function.

```php
echo("<h1>The current date is: <br>"
.date("D, F jS"). "</h1>");



$day = date("j");

$numOfDays = date("t");



//calculate day of week of first day
//in month

$firstDay = date("N") - ($day % 7);

if($firstDay < 0)

{$firstDay += 7;}
```

Because I only intended it to display one month, the current month, the calendar was not made with a function, and is simply created sequentially in PHP using the values calculated from `date()`. I have confidence that it can be easily converted into a function for our upcoming assignment.
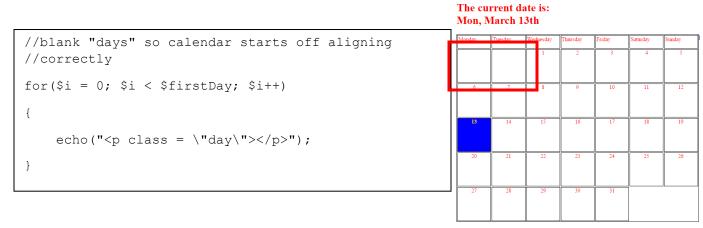
Each of the parts of the calendar are added, in order:

```php
//day of week indicators

$days = array("Monday", "Tuesday", "Wednesday",
"Thursday", "Friday", "Saturday", "Sunday");



for($i = 0; $i < 7; $i++)

{

    echo("<p class = \"dayTop\">".$days[$i]."</p>");

}
```

The current date is:
Mon, March 13th

```
//blank "days" so calendar starts off aligning
//correctly

for($i = 0; $i < $firstDay; $i++)

{

    echo("<p class = \"day\"></p>");

}
```

```
//each day in the month

for($i = 1; $i <= $numOfDays; $i++)

{

    echo("<p ");

    //today stands out

    if($i == $day)

    {

        echo("id = \"currentDay\" ");

    }

    echo("class=\"day\">".$i."</p>");

}
```

The current date is:
Mon, March 13th

Reflection

I'll admit, I didn't put as much research into this assignment as I could have. I even created the calendar with carefully-styled `divs` rather than thinking to use a table. Once I understood the concept of PHP as something to generate mathematically repeatable HTML, I had all I needed to make it. It was definitely a good first step into exploring the powers of PHP, but this didn't really go anywhere surprising.

Code

index.php

```
<!DOCTYPE html>

<html>

    <head>

        <meta charset="UTF-8">

        <title>Calendar</title>

        <link rel="stylesheet" type="text/css" href="CSS/Main.css">

    </head>

    <body>

        <?php

        echo("<h1>The current date is: <br>" .date("D, F jS").
"</h1>");


        $day = date("j");

        $numOfDays = date("t");


        //calculate day of week of first day in month

        $firstDay = date("N") - ($day % 7);

        if($firstDay < 0)

        {$firstDay += 7;}


        echo("<div id = \"calendar\">");


        //add day of week indicators

        $days = array("Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday", "Sunday");


        for($i = 0; $i < 7; $i++)

        {

            echo("<p class = \"dayTop\">".$days[$i]."</p>");

        }
```

```php
        //blank "days" so calendar starts off aligning correctly

        for($i = 0; $i < $firstDay; $i++)

        {

            echo("<p class = \"day\"></p>");

        }


        //put in a day for each day in the month

        for($i = 1; $i <= $numOfDays; $i++)

        {

            echo("<p ");


            if($i == $day){echo("id = \"currentDay\" ");}//today
stands out


            echo("class=\"day\">".$i."</p>");


        }

        echo("</div>");

        ?>

    </body>

</html>
```

Main.css

```
body
{
    color: red;
}


div
{
    float: left;
}


#calendar
{
    border: 1px solid black;
    width: 702px;
    height: 543px;
}


.dayTop
{
    border: 1px solid black;
    margin: 1px;
    padding: 2px;
    margin-top: 2px;
    height: 32px;
    width: 92px;
    float: left;



}
```

```css
.day
{
    border: 1px solid black;
    margin: 1px;
    height: 96px;
    width: 96px;
    float: left;
    text-align: center;
}


.day:not(#currentDay):active
{
    background-color: lightblue;
    color: coral;
}


#currentDay
{
    background-color: blue;
    color: gold;
    font-weight: bold;
}


#currentDay:active
{
    background-color: cornflowerblue;
    color: khaki;
}
```

```
#clock
{
    border: 1px solid black;
    width: 40px;
    height: 40px;
    float: left;
}
```

```
#clock
```