

**Introduction:**

The goal of this project was to create a simple calendar in NetBeans using PHP.

**Narrative:**

This project was not terribly hard; however, there were some parts that I got stuck on. The biggest example of this was the preset functions, such as the `gregoriantojd` and the `jddayofweek` functions. To free myself, I looked at the Github repository. I did not simply copy the code, but I tried to make sense of the functions as to why they would be named the way they are and how they are organized. One of the first things I noticed was that whenever it involves the Julian date, it is abbreviated to `jd`. Once I got past this part, it was self-explanatory. I simply used a for loop with a nested if-statement that checks to see if the current day was the last day of the week. If the statement was true, I ended the current table row, and started a new row.

**Reflection:**

This project was not extremely challenging, but it was just a simple calendar. I did get stuck a few times, but they were not major problems where the whole thing wasn't working, it was just that I didn't know the preset functions. I feel like I learned a lot from this project, and if I try it again, I would be able to do it without looking anywhere else.

```
<?php
    echo "<div>";
        getVariablesForCalendar(3, 2017);
    echo "</div>";

function getVariablesForCalendar($Month, $Year) {
    $JulianDay = gregoriantojd($Month, 1, $Year);
    $FirstDay = jddayofweek($JulianDay);
    $NumDays = cal_days_in_month(CAL_GREGORIAN, $Month, $Year);
    echo "<p>" . jdmmonthname($JulianDay, 1) . " " . $Year . "</p>";
    CreateCalendar($FirstDay, $NumDays);
}

function CreateCalendar($StartDay, $Days) {
    echo "<table>";
    echo "<tr>";
    for ($i = 0; $i < $StartDay; $i++) {
        echo "<td>" . " " . "</td>";
    }
    $CurrentDay = $StartDay;
    for($i = 1; $i < $Days; $i++) {
        echo "<td>" . $i . "</td>";
```

```
$CurrentDay++;  
if($CurrentDay % 7 == 0) {  
    echo "</tr>" . "<tr>";  
}  
}  
echo "</tr>";  
echo "</table>";  
}
```