

BAGARES, CHRISTINE JOY S.

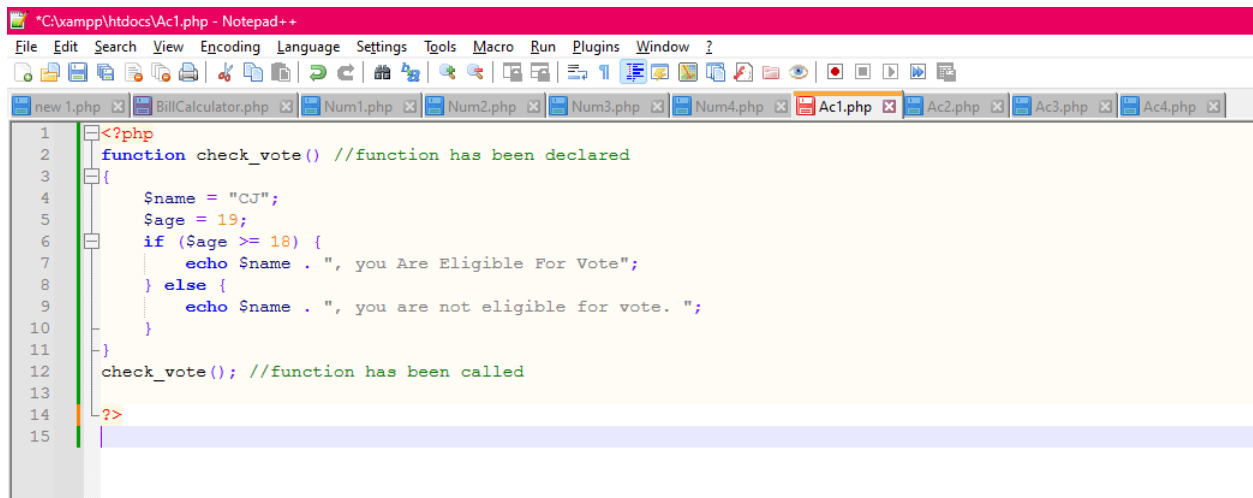
BSIT-NS-3B

1. Write a PHP program to check if a person is eligible to vote.

Condition:

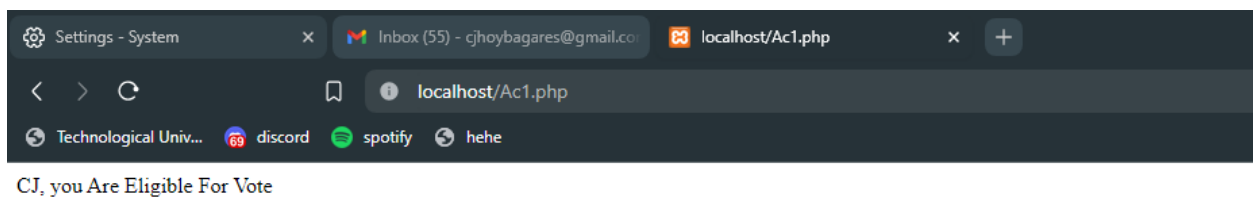
- The minimum age required to vote is 18.

Source Code:



```
1 <?php
2 function check_vote() //function has been declared
3 {
4     $name = "CJ";
5     $age = 19;
6     if ($age >= 18) {
7         echo $name . ", you Are Eligible For Vote";
8     } else {
9         echo $name . ", you are not eligible for vote. ";
10    }
11 }
12 check_vote(); //function has been called
13
14 ?>
15
```

OUTPUT:



Settings - System    Inbox (55) - cjhoybagares@gmail.co    localhost/Ac1.php    +

localhost/Ac1.php

Technological Univ...    discord    spotify    hehe

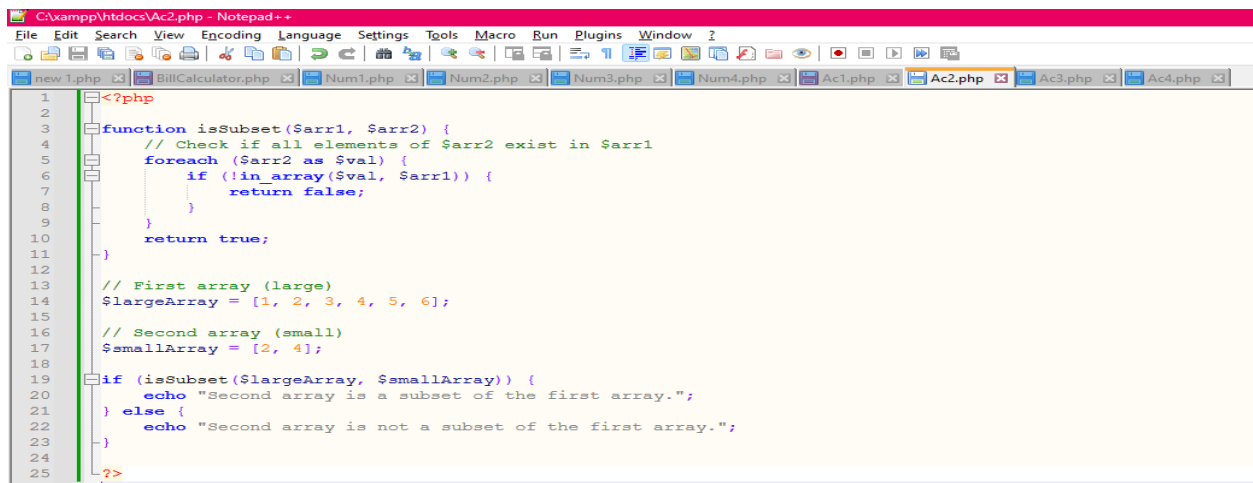
CJ, you Are Eligible For Vote

2. Write a PHP program to check if an array is a subset of another PHP.

Condition:

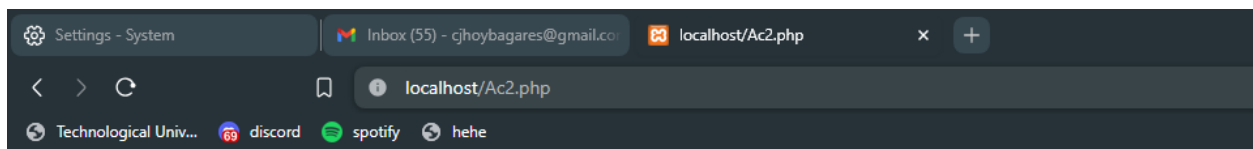
- Suppose that there are two arrays.
- The first array is large and has 6 values.
- The second array is small and has 2 values.
- Find if the second array is a subset of the first, meaning that all values of the second array should exist in the first array.

Source Code:



```
1 <?php
2
3 function isSubset($arr1, $arr2) {
4     // Check if all elements of $arr2 exist in $arr1
5     foreach ($arr2 as $val) {
6         if (!in_array($val, $arr1)) {
7             return false;
8         }
9     }
10    return true;
11 }
12
13 // First array (large)
14 $largeArray = [1, 2, 3, 4, 5, 6];
15
16 // Second array (small)
17 $smallArray = [2, 4];
18
19 if (isSubset($largeArray, $smallArray)) {
20     echo "Second array is a subset of the first array.";
21 } else {
22     echo "Second array is not a subset of the first array.";
23 }
24
25 ?>
```

Output:

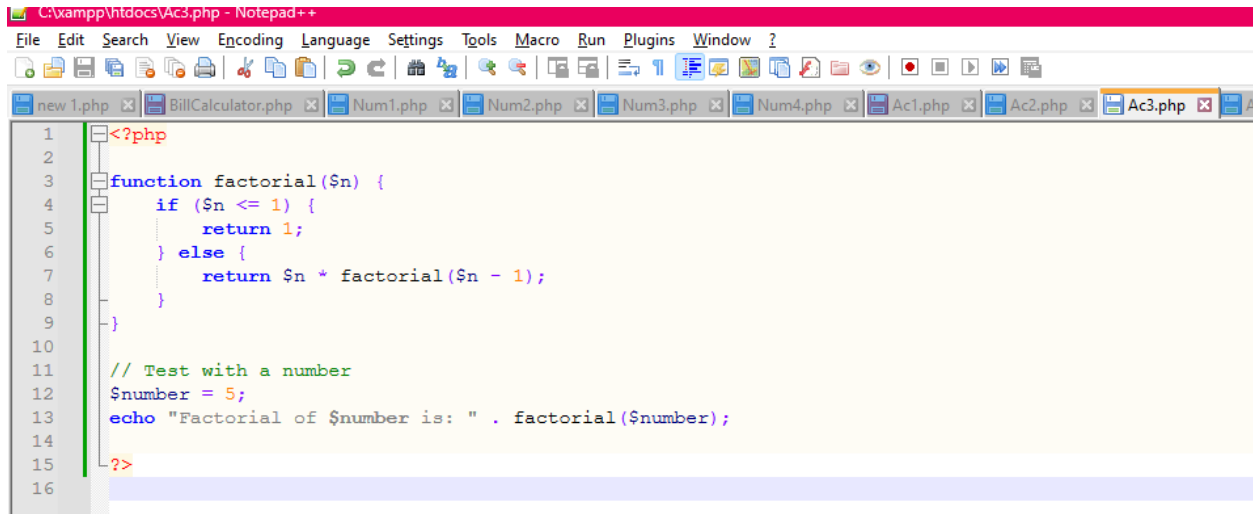


Second array is a subset of the first array.

3. Write a PHP program. To find the factorial of a number using a recursive function.

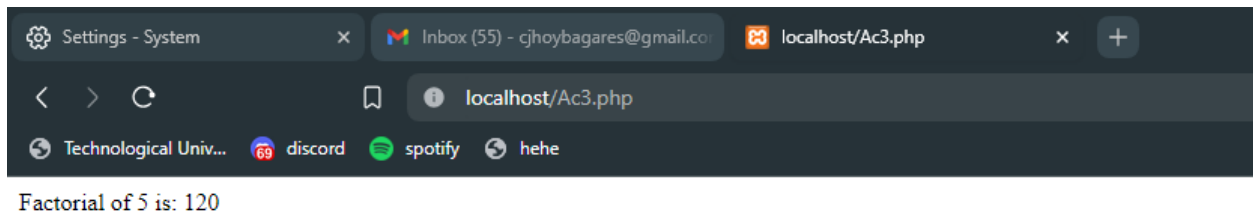
- A recursive function is a function that calls itself.

Source Code:



```
1 <?php
2
3 function factorial($n) {
4     if ($n <= 1) {
5         return 1;
6     } else {
7         return $n * factorial($n - 1);
8     }
9 }
10
11 // Test with a number
12 $number = 5;
13 echo "Factorial of $number is: " . factorial($number);
14
15 ?>
16
```

Output:



4. Write a PHP program to create a Chess board.

Condition:

- You can use an HTML table having width="400px" and take "30px" as cell height and width for the check box.

## Source Code:

```
C:\xampp\htdocs\Ac4.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
new 1.php BillCalculator.php Num1.php Num2.php Num3.php Num4.php Ac1.php Ac2.php Ac3.php Ac4.php
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Chess Board</title>
5 <style>
6     table {
7         border-collapse: collapse;
8     }
9
10     td {
11         width: 30px;
12         height: 30px;
13         text-align: center;
14     }
15
16     .black {
17         background-color: #769656;
18     }
19
20     .white {
21         background-color: #eeeeed2;
22     }
23 </style>
24 </head>
25 <body>
26     <table border="1" width="400px">
27     <?php
28         for ($row = 1; $row <= 8; $row++) {
29             echo "<tr>";
30             for ($col = 1; $col <= 8; $col++) {
31                 $class = (($row + $col) % 2 == 0) ? "white" : "black";
32                 echo "<td class='$class'></td>";
33             }
34             echo "</tr>";
35         }
36     <?>
```

## Output:

