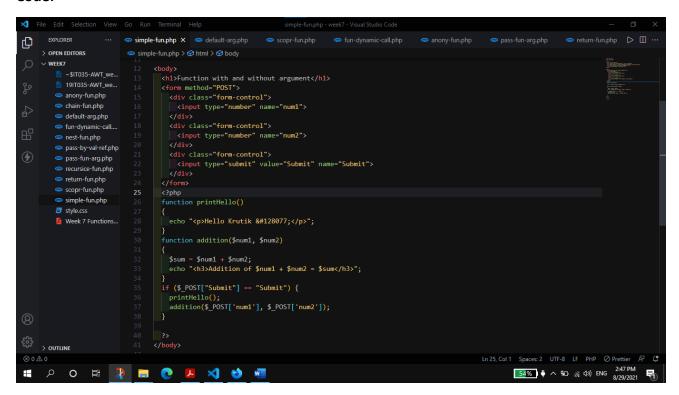
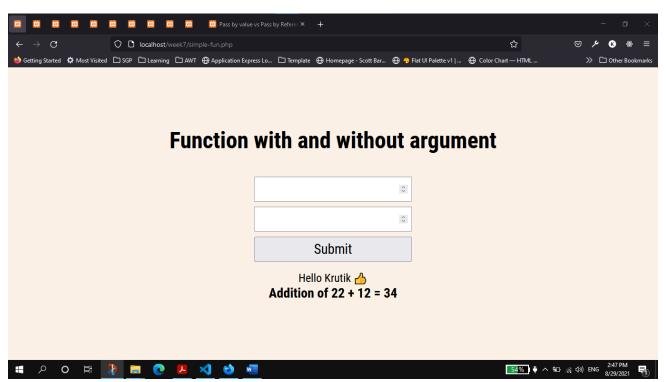
### AWT Practical Week - 7 Task

### **Functions in PHP**

1. Function with and without argument

### Code:

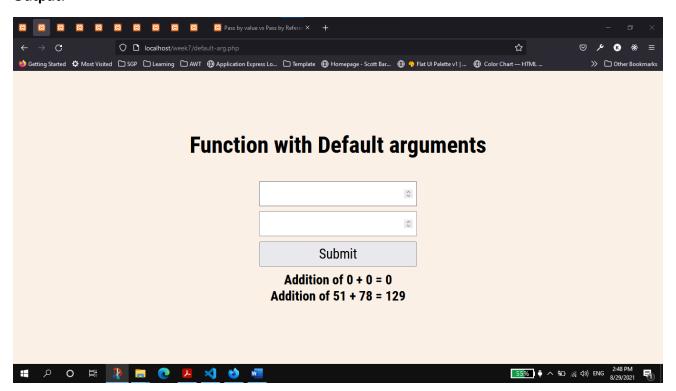




2. Function with Default argument.

### Code:

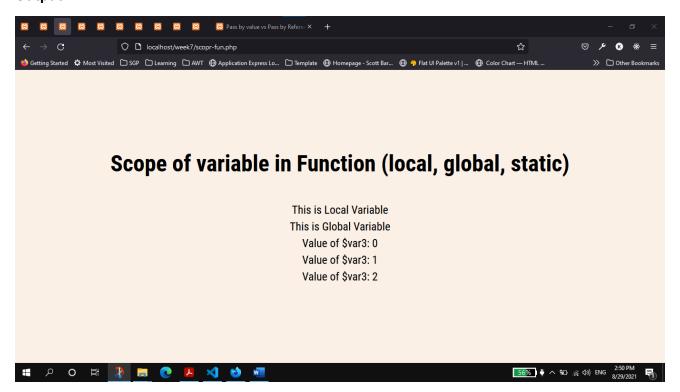
```
> OPEN EDITORS
                                    <title>Function with Default argument</title>
k rel="stylesheet" href="style.css">
     ∨ WEEK7
         ** ~$IT035-AWT we...
                                  | shi>Function with Default arguments</hi>
        chain-fun.php
        default-arg.php
                                    <form method="POST">
    <div class="form-control">
        fun-dynamic-call....
        pass-by-val-ref.php
        pass-fun-arg.php
        recursice-fun.php
                                        <input type="number" name="num2">
        return-fun.php
        scopr-fun.php
                                         <input type="submit" value="Submit" name="Submit">
        ∃ style.css
         Week 7 Functions...
                                     function addition($num1 = 0, $num2 = 0)
                                      $sum = $num1 + $num2;
echo "<h3>Addition of $num1 + $num2 = $sum</h3>";
                                       addition($_POST['num1'], $_POST['num2']);
> OUTLINE
                                                                                                                          Ln 12, Col 7 Spaces: 2 UTF-8 LF PHP ⊘ Prettier 🛱 🕻
                                                                                                                                   54% ♥ ^ % (1)) ENG 2:48 PM 8/29/2021
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```



3. Scope of variable in Function (local, global, static)

### Code:

```
▷ Ⅲ ...
       EXPLORER
                             scopr-fun.php X  fun-dynamic-call.php
凸
      > OPEN EDITORS
                              <meta name="Viewport" content="width=device-width, initial-scale=1.0">
<title>Scope of variable in Function (local, global, static)</title>
< rel="stylesheet" href="style.css">
         anony-fun.php
         chain-fun.php
         default-arg.php
                                        <h1>Scope of variable in Function (local, global, static)</h1>
         nest-fun.php
                                        $var1 = "This is Global Variable";
         pass-by-val-ref.php
         pass-fun-arg.php
                                          $var2 = "This is Local Variable";
echo $var2;
         scopr-fun.php
         simple-fun.php
         static $var3 = 0;
echo "Value of \$var3: $var3";
                                        varScope();
staticVar();
                                        staticVar();
staticVar();
     > OUTLINE
                                                                                                                                                0
```



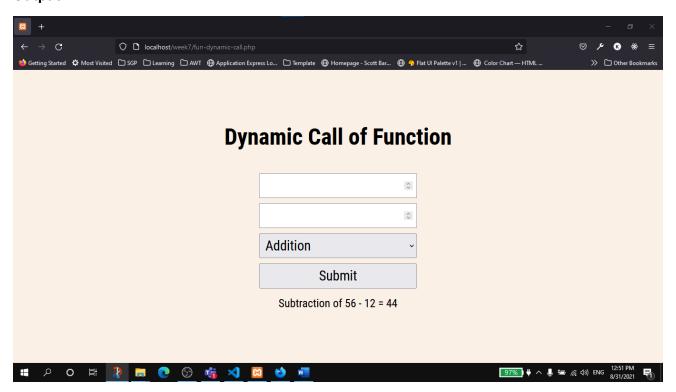
## 4. Dynamic Call of Function

### Code:

```
EXPLORER
                         ··· 

fun-dynamic-call.php ×
Ð
                                > OPEN EDITORS
          19IT035-AWT_we...
19IT035-AWT_we...

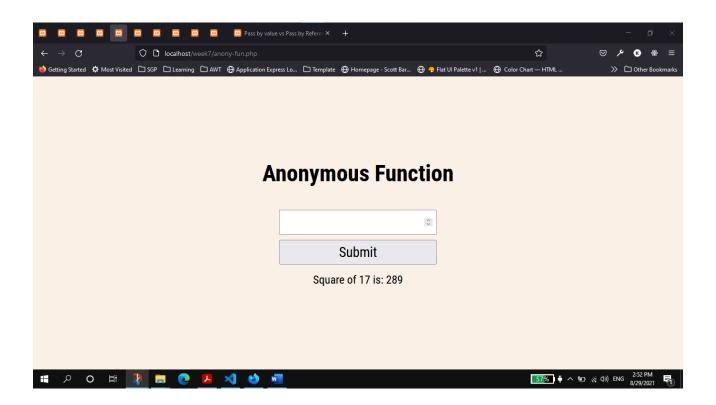
<
          anony-fun.php
          chain-fun.php
          default-arg.php
          fun-dynamic-call....
         nest-fun.php
                                           $dynamicFun = 'addition';
function addition($num1, $num2)
          pass-by-val-ref.php
          pass-fun-arg.php
                                             $sum = $num1 + $num2;
echo "Addition of $num1 + $num2 = $sum";
          return-fun.php
          scopr-fun.php
          simple-fun.php
                                            function difference($num1, $num2)
          ∃ style.css
                                             $diff = $num1 - $num2;
echo "Subtraction of $num1 - $num2 = $diff";
           Week 7 Functions...
                                           if ($_POST["operation"] == "Addition") {
    $dynamicFun = 'addition';
} else {
    $dynamicFun = 'difference';
                                           $dynamicFun($_POST['num1'], $_POST['num2']);
     > OUTLINE
                                                                                                                                                      97% ♥ ^ ♣ % (4)) ENG 12:52 PM 8/31/2021
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            0
```



## 5. Anonymous Function

### Code:

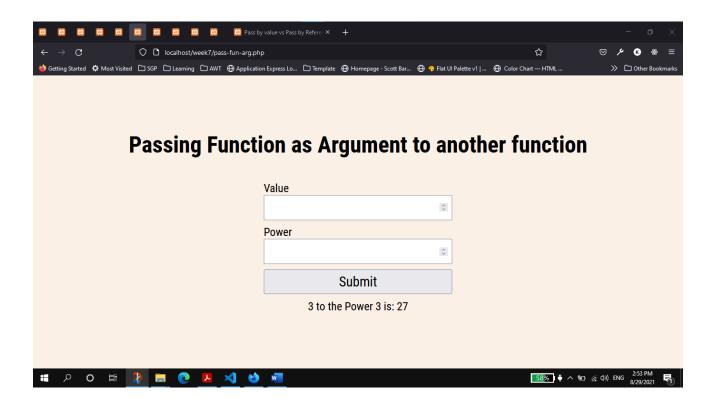
```
anony-fun.php X pass-fun-arg.php
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ▷ Ⅲ …
D
                   > OPEN EDITORS
                 ∨ WEEK7
                                                                                                                                <head>
  <meta charset="UTF-8">
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
                               19IT035-AWT_we...
                               anony-fun.php
                                                                                                                                     <meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Anonymous Function</title>
                                                                                                                                k rel="stylesheet" href="style.css">
</head>
                               default-arg.php
                               fun-dynamic-call....
                               nest-fun.php
                              pass-by-val-ref.php
                               pass-fun-arg.php
                                                                                                                                       <form method="post">
  <div class="form-control">
                                recursice-fun.php
                               return-fun.php
                                                                                                                                                <input type="number" name="num1">
                                scopr-fun.php
                                simple-fun.php
                                                                                                                                             .
.div class="form-control">
.div class="fo
                                                                                                                                        </div>
                                  Week 7 Functions...
                                                                                                                                      $?php
$squr = function ($n) {
  return $n * $n;
                                                                                                                                       if ($_POST["Submit"] == "Submit") {
    echo "Square of " . $_POST['num1'] . " is: " . $squr($_POST['num1']) . "";
                 > OUTLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  57% ♥ ^ %□ // ⟨ Ф)) ENG 2:52 PM 8/29/2021
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                     ρ 0
```



6. Passing Function as Argument to another function

### Code:

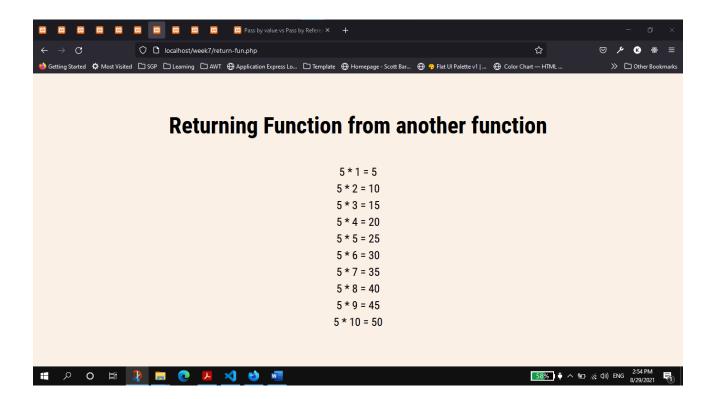
```
⊳ Ш ...
                             pass-fun-arg.php X return-fun.php
D
     > OPEN EDITORS
                                         <label for="num1">Value</label>
<input type="number" name="num1"</pre>
     ∨ WEEK7
         ~$IT035-AWT_we...
                                         </div>
<div class="form-control">
         19IT035-AWT_we...
         anony-fun.php
                                         <label for="num2">Power</label>
<input type="number" name="num2">
         default-arg.php
                                       fun-dynamic-call....
         nest-fun.php
         pass-by-val-ref.php
         pass-fun-arg.php
                                        <?php
function callBackFun($value, $power)</pre>
         return-fun.php
         scopr-fun.php
                                          $result = 1;
for ($i = 0; $i < $power; $i++) {
    $result *= $value;</pre>
         simple-fun.php
          Week 7 Functions...
                                           return $result;
                                         function mainFun($callback, $val, $pow)
                                          echo "$val to the Power $pow is: " . $callback($val, $pow);
                                        if ($_POST["Submit"] == "Submit") {
    mainFun('callBackFun', $_POST['num1'], $_POST['num2']);
     > OUTLINE
                                                                                                                                              58% ♥ ^ %□ // ⟨ Ф)) ENG 2:53 PM 8/29/2021
                                 🚃 🧿 🔼 📢 🔞 🐠
           0
```



### 7. Returning Function from another function

### Code:

```
⊳ Ш ...
                        return-fun.php X recursice-fun.php
D
    > OPEN EDITORS
                                <!DOCTYPE html>
<html lang="en">
    ∨ WEEK7
       19IT035-AWT_we...
                               anony-fun.php
        default-arg.php
       fun-dynamic-call....
       nest-fun.php
       pass-by-val-ref.php
        pass-fun-arg.php
        recursice-fun.php
                                <body>
<h1>Returning Function from another function</h1>
        return-fun.php
                                  <?php
function multipler()</pre>
        scopr-fun.php
        simple-fun.php
                                    $table = function ($x) {
   for ($i = 1; $i <= 10; $i++) {
     echo "<p>$x * $i = " . $i * $x . "";
        Week 7 Functions...
                                  }
$table = multipler();
    > OUTLINE
                                                                                                                         58% ♥ ^ № // (4)) ENG 8/29/2021
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```



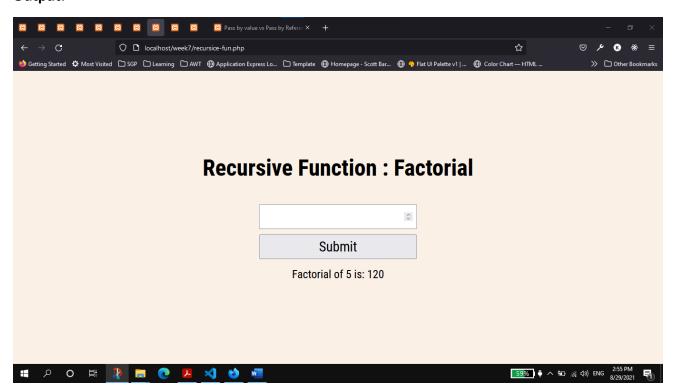
# 8. Recursive Function: Factorial

### Code:

```
··· @ recursice-fun.php X @ nest-fun.php @ chain-fun.php @ pass-by-val-ref.php
ф
                    > OPEN EDITORS

✓ WEEK7

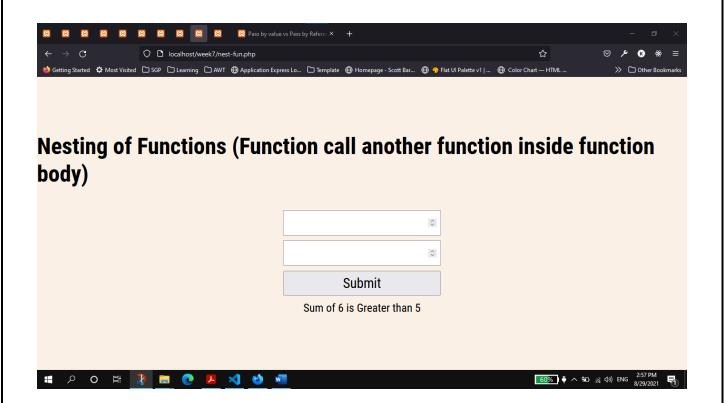
      ** ~$IT035-AWT we...
      chain-fun.php
                          default-arg.php
      fun-dynamic-call....
                           pass-fun-arg.php
      recursice-fun.php
      return-fun.php
      scopr-fun.php
                           <?php
      ∃ style.css
       Week 7 Functions...
                           if ($ POST["Submit"] -- "Submit") {
    echo "Factorial of " . $_POST['num1'] . " is: " . factorial($_POST['num1']) . "";
> OUTLINE
                                                                                         Ln 20, Col 11 Spaces: 2 UTF-8 LF PHP ⊘ Prettier 🧖 💲
                                                                                                59% # ^ ½ / (4)) ENG 2:54 PM 8/29/2021
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```



9. Nesting of Functions (Function call another function inside function body)

### Code:

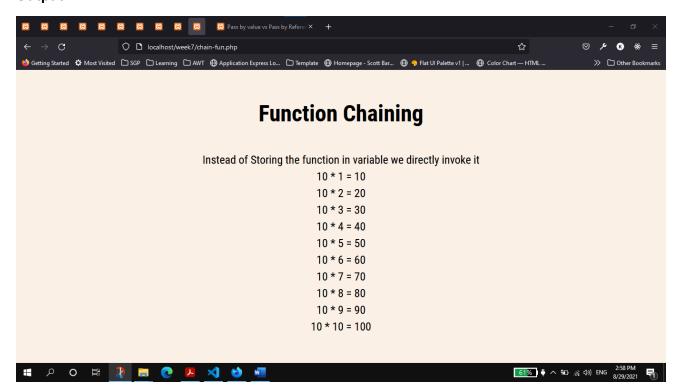
```
| The field Section Var | Company |
```



# 10. Function Chaining

### Code:

```
EXPLORER
                               chain-fun.php × pass-by-val-ref.php
ф
      > OPEN EDITORS
                                         <!DOCTYPE html>
<html lang="en">
          chain-fun.php
                                           <meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
          default-arg.php
                                           <title>Function Chaining</title>
k rel="stylesheet" href="style.css">
          pass-by-val-ref.php
          pass-fun-arg.php
                                         <body>
<hl>Function Chaining</hl>
chpSinstead of Storing the function in variable we directly invoke it
Subo
          recursice-fun.php
          scopr-fun.php
          simple-fun.php
          $table = function ($x) {
  for ($i = 1; $i <= 10; $i @var int $i
      echo "<p>$x * $i = " . $i * $x . "";
                                            multipler()(10);
     > OUTLINE
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                                                                                                                                                            0
```



## 11. Pass by value vs Pass by Reference

### Code:

```
⊳ Ш ...
      EXPLORER
                          pass-by-val-ref.php ×
ф
     > OPEN EDITORS
                           pass-by-val-ref.php > ♦ html > ♦ body > ♦ passByValue
                                   anony-fun.php
        chain-fun.php
        default-arg.php
                                   <h1>Pass by value vs Pass by Reference</h1>
                                   nest-fun.php
        pass-by-val-ref.php
        pass-fun-arg.php
                                      $temp = $n1;
$n1 = $n2;
$n2 = $temp;
        scopr-fun.php
        simple-fun.php
        passByValue($num1, $num2);
echo "After Swapping($num1 = $num1 and \$num2 = $num2";
echo "Before Swapping \$num1 = $num1 and \$num2 = $num2";
function passByRef(&$n1, &$n2)
                                      $temp = $n1;
$n1 = $n2;
$n2 = $temp;
                                    passByRef($num1, $num2);
echo "After Swapping\$num1 = $num1 and \$num2 = $num2";
}>
    > OUTLINE
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                                                                                                                                62% ♥ ^ % (4)) ENG 2:59 PM
8/29/2021
          0
```

