

#### Task 1

1.

2.

```
mathfunctions.php X
mathfunctions.php > PHP > 🗘 isPositiveInteger
      <?php
       function factorial ($n) { // declare the factorial function
          $result = 10;
          $factor = $n;
          while ($factor > 1) {    // loop to multiple all factors until 1
    $result = $result * $factor;
            $factor--;
          return $result;
       function isPositiveInteger ($n) / //declare the function that takes a parameter
           if (is_numeric($n)) //use the inbuilt is_numeric which returns boolean
 19
              if ($n == floor($n))
                   if ($n > 0)
                       $result = true;
          return $result; // function execution will end here if -ve or none-integer
     k!DOCTYPE html>
     <html lang="en">
          <meta charset="UTF-8">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Week 7</title>
          <?php
              include("mathfunctions.php") // make functions in the included file available
          <h1>Factorial</h1>
              num = 5;
                  if (isPositiveInteger($num)) {
                       echo "", $num, "! is ", factorial($num), ".";
                       echo "Please enter a positive integer.";
              echo "<a href='factorial.html'>Return to the Entry Page</a>";
```

## **Factorial**

5! is 120.

Return to the Entry Page

## Link to task 1

#### Task 2:

1.

2.

# **Factorial Form**

Enter a positive integer	
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## **Factorial**

6! is 720.

Return to the Entry Pages

Link to task2