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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <meta http-equiv="Content-Type"
  content="text/html; charset=utf-8" />
  <title>Widget Cost Calculator (Review and Pursue Ch13)</title>
</head>
<body>
  <h1>Widget Cost Calculator (Review and Pursue Ch13)</h1>
  <?php #script review and pursue: I can think of more than 1 way to do this but this seems the
  clearest
  if ($_SERVER['REQUEST_METHOD'] == 'POST'){
    //sanitize the data
    $quantity = (isset($_POST['quantity'])) ? filter_var($_POST['quantity'],
  FILTER_VALIDATE_INT, array('min_range' => 1)) : NULL;
    $price = (isset($_POST['price'])) ? filter_var($_POST['price'],
  FILTER_SANITIZE_NUMBER_FLOAT, FILTER_FLAG_ALLOW_FRACTION) : NULL;
    $tax = (isset($_POST['tax'])) ? filter_var($_POST['tax'],
  FILTER_SANITIZE_NUMBER_FLOAT, FILTER_FLAG_ALLOW_FRACTION) : NULL;

    //all variables should be positive except tax which may be zero: review and pursue
  item 2 ch13
    if (($quantity > 0) && ($price > 0) && ($tax == 0)){

      //calculate the total
      $total = $quantity * $price;

      //display result
      echo '<p>The total cost of purchasing ' . $quantity . ' thingees at &pound;' .
  number_format($price,2) .
      '&#37; is &pound;' . number_format($total,2) . '</p>';
      //end of review and pursue item 2

      //variables should be positive
    }elseif(($quantity > 0) && ($price > 0) && ($tax > 0)){

      //calculate the total
      $total = $quantity * $price;
      $total += $total * ($tax/100);

      //display result
      echo '<p>The total cost of purchasing ' . $quantity . ' thingees at &pound;' .
  number_format($price,2) .
      ' each plus tax at ' . number_format($tax, 2) . '&#37; is &pound;' .
  number_format($total,2) . '</p>';

    } else {//invalid entries

      echo '<p style="font-weight: bold; color: #C00";>Please enter a valid
  quantity, price and tax rate.</p>';

    }
  }
  //end main IF post

  //create the html form
  ?>
  <h2>Thingee Cost Calculator</h2>
  <form action="widget_calculator.php" method="post">
    <p>Quantity: <input type="text" name="quantity" size="5" maxlength="10"
      value="<?php if (isset($quantity)) echo $quantity;?>" /></p>
    <p>Price: <input type="text" name="price" size="5" maxlength="10"
      value="<?php if (isset($price)) echo $price ;?>" /> </p>

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<p>Tax: <input type="text" name="tax" size="5" maxlength="10"
      value="<?php if (isset($tax)) echo $tax ;?>" /></p>
<p><input type="submit" name="submit" value="Calculate!" /></p>
</form>
</body>
</html>
```