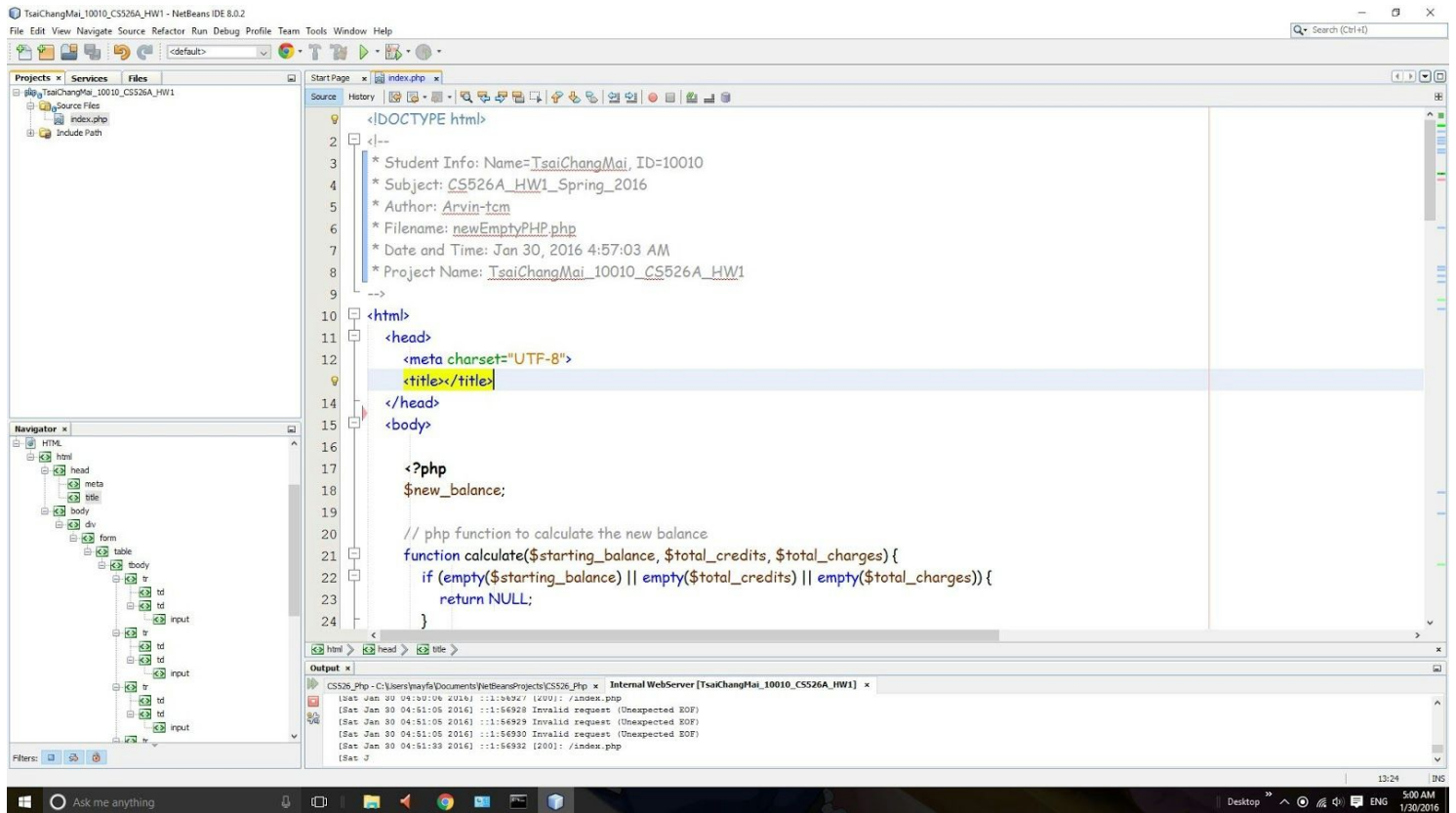


1) screenshot



2) HTML code

```
<!DOCTYPE html>
```

```
<!--
```

```
* Student Info: Name=TsaiChangMai, ID=10010
```

```
* Subject: CS526A_HW1_Spring_2016
```

```
* Author: Arvin-tcm
```

```
* Filename: newEmptyPHP.php
```

```
* Date and Time: Jan 30, 2016 4:57:03 AM
```

```
* Project Name: TsaiChangMai_10010_CS526A_HW1
```

```
-->
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<?php
```

```
$new_balance;
```

```
// php function to calculate the new balance
```

```
function calculate($starting_balance, $total_credits, $total_charges) {
```

```
    if (empty($starting_balance) || empty($total_credits) || empty($total_charges)) {
```

```
        return NULL;
```

```
}
$GLOBALS['new_balance'] = $starting_balance - $total_credits + $total_charges;
return $GLOBALS['new_balance'];
}

// php function to check the new balance over the credit limit
// true new balance > limit
function balance_check($credit_limit) {
    if (!isset($GLOBALS['new_balance'])) {
        return NULL;
    }
    if ($GLOBALS['new_balance'] <= $credit_limit) {
        $remaining = $credit_limit - $GLOBALS['new_balance'];
        return 'Remaining credit: $' . $remaining;
    } else {
        return "exceeded credit limit";
    }
}
?>
<div>
    <form method="post" name="myForm">
        <table cellpadding="4" style="border: 2px solid; background-color: #e6e6e6">
            <tbody>
                <tr>
                    <td>
                        Account number:
                    </td>
                    <td>
                        <input type="number" name="account_number" value="<?php echo
filter_input(INPUT_POST, 'account_number'); ?>"/>
                    </td>
                </tr>
                <tr>
                    <td>
                        Starting balance:
                    </td>
                    <td>
                        <input type="number" name="starting_balance" value="<?php echo
filter_input(INPUT_POST, 'starting_balance'); ?>"/>
                    </td>
                </tr>
                <tr>
                    <td>
                        Total charges:
                    </td>
                    <td>
                        <input type="number" name="total_charges" value="<?php echo filter_input(INPUT_POST,
'total_charges'); ?>"/>
                    </td>
                </tr>
            </tbody>
        </table>
    </form>
</div>
```

```
</td>
</tr>
<tr>
  <td>
    Total credits:
  </td>
  <td>
    <input type="number" name="total_credits" value="<?php echo filter_input(INPUT_POST,
'total_credits'); ?>" />
  </td>
</tr>
<tr>
  <td>
    Credit limit:
  </td>
  <td>
    <input type="number" name="credit_limit" value="<?php echo filter_input(INPUT_POST,
'credit_limit'); ?>" />
  </td>
</tr>
<tr>
  <td>
    New balance:
  </td>
  <td>
    <input type="number" name="new_balance" style="background-color: #e6e6e6" readonly
value="<?php echo calculate(filter_input(INPUT_POST, 'starting_balance'), filter_input(INPUT_POST,
'total_credits'), filter_input(INPUT_POST, 'total_charges')) ?>" />
  </td>
</tr>
<tr>
  <td colspan="2">
    <input type="text" name="remainging_credit" size="38" style="background-color: #e6e6e6"
readonly value="<?php echo balance_check(filter_input(INPUT_POST, 'credit_limit')) ?>" />
  </td>
</tr>
<tr>
  <td>
    <button type="reset">Clear Field</button>
  </td>
  <td>
    <input type="submit" name="calculate" value="Calculate Balance" />
  </td>
</tr>
</tbody>
</table>
</form>
</div>
```

</body>
</html>

3) result screen shot

The screenshot shows the NetBeans IDE with the source code of `index.php` and a browser window displaying the web application output.

Source Code (index.php):

```
<!DOCTYPE html>
<!--
 * Student Info: Name=TsaiChangMai, ID=10010
 * Subject: CS526A_HW1_Spring_2016
 * Author: Arvin-tem
 * Filename: newEmptyPHP.php
 * Date and Time: Jan 30, 2016 4:57:03 AM
 * Project Name: TsaiChangMai_10010_CS526A_HW1
-->

<html>
<head>
<meta charset="UTF-8">
<title></title>
</head>
<body>

<?php
$new_balance;

// php function to calculate the new balance
function calculate($starting_balance, $total_credits, $total_charges) {
    if (empty($starting_balance) || empty($total_credits) || empty($total_charges)) {
        return NULL;
    }
}
```

Browser Window (localhost:8000/index.php):

Account number:	12345
Starting balance:	200
Total charges:	15
Total credits:	20
Credit limit:	300
New balance:	195
Remaining credit:	\$105
<input type="button" value="Clear Field"/> <input type="button" value="Calculate Balance"/>	

Output Window:

```
CS526_Php - C:\Users\may\Documents\NetBeansProjects\CS526_Php x Internal WebServer [TsaiChangMai_10010_CS526A_HW1] x
[Sat Jan 30 04:50:09 2016] ::1:8080/ (200): /index.php
[Sat Jan 30 04:51:06 2016] ::1:56928 Invalid request (Unexpected EOF)
[Sat Jan 30 04:51:06 2016] ::1:56929 Invalid request (Unexpected EOF)
[Sat Jan 30 04:51:06 2016] ::1:56930 Invalid request (Unexpected EOF)
[Sat Jan 30 04:51:33 2016] ::1:56932 (200): /index.php
[Sat J
```