

```

<?php #script transfer_cash.php
//from review and pursue exercises suggested chapter 9
//this script allows a user to check their transfer cash to another account
//requires output buffering to be enabled in php: check your php core with
phpinfo();
//a bit messy and probably could be rewritten in a tidier fashion
//but time to move on as I have already stuck in techniques that haven't yet
been taught...

$page_title = 'Transfer Money';
include ('includes/header.html');

//check for form submission
if ($_SERVER['REQUEST_METHOD']=='POST'){

    require ('includes/mysqli_connect.php');//connect to the db

    $errors = array() //initialise an array for errors

    //check all account details for FROM
    //check for an entered number as pin
    if (!is_numeric($_POST['pin']))){
        $errors[] = 'You did not enter a valid pin number.';
    }else //a number was entered: check number exists in db
        $pin1 = mysqli_real_escape_string($dbc, trim($_POST['pin']));
        $q = "SELECT AES_DECRYPT(pin,nacl) AS pin FROM customers WHERE
AES_DECRYPT(pin,nacl) = $pin1";
        $r = @mysqli_query($dbc,$q);

        $row_count = @mysqli_num_rows($r) //how many rows returned from the
query

        if ($row_count == 1) //1 row returned: match made
            $pin_num = TRUE;
        }else //no match or too many matches
            $pin_num = FALSE;
        }

        //check for an existing pin
        if (!$pin_num) //no row found with this pin
            $errors[] = 'This pin number does not exist.';
        }else //pin exists
            $pin = mysqli_real_escape_string($dbc, trim($_POST['pin']));
        }
    } //end of checking the pin

    //check for first name FROM
    if empty($_POST['first_name']))){
        $errors[] = 'You did not enter your first name';
    }else{
        $fn = mysqli_real_escape_string($dbc, trim($_POST['first_name']));
    }

    //check for last name FROM
    if empty($_POST['last_name']))){
        $errors[] = 'You did not enter your last last name.';
    }else{
        $ln = mysqli_real_escape_string($dbc, trim($_POST['last_name']));
    }

    //check for an account number FROM
    if !is_numeric($_POST['ac_num']))){

```

```

        $errors[] = 'You did not enter a valid account number for
yourself.';
    }else{
        $ac_id = mysqli_real_escape_string($dbc, trim($_POST['ac_num']));
    }

    //check for the amount to be transferred FROM
    if (!is_numeric($_POST['amount']) || ($_POST['amount'] < 1)) { //must be
positive number not zero
        $errors[] = 'You did not enter a valid amount to be transferred.';
    }else{
        $amount = mysqli_real_escape_string($dbc, trim($_POST['amount']));
        $amount = (int) $amount; //whole numbers only accepted
    }

    //check details of account amount to be transferred TO
    //check for first name TO
    if (empty($_POST['first_name2'])) {
        $errors[] = 'You forgot to enter a first name';
    }else{
        $fn2 = mysqli_real_escape_string($dbc, trim($_POST['first_name2']));
    }

    //check for last name TO
    if (empty($_POST['last_name2'])) {
        $errors[] = 'You did not enter a last name.';
    }else{
        $ln2 = mysqli_real_escape_string($dbc, trim($_POST['last_name2']));
    }

    //check for an account number TO
    if (!is_numeric($_POST['ac_num2'])) {
        $errors[] = 'You did not enter a valid account number for
transferee';
    }else{
        $ac_id2 = mysqli_real_escape_string($dbc, trim($_POST['ac_num2']));
    }

    if (empty($errors)) { //all info entered and correct type

    $mistakes=array();

    //check name and account combo FROM exists
        $query = "SELECT c.first_name, c.last_name, a.account_id
                FROM customers AS c
                INNER JOIN accounts AS a
                USING ( customer_id )
                WHERE (AES_DECRYPT( pin, nacl )) = '$pin'
                AND c.first_name = '$fn'
                AND c.last_name = '$ln'
                AND a.account_id = '$ac_id'";

        $result1 = @mysqli_query($dbc, $query);
        $row_count1 = @mysqli_num_rows($result1); //how many rows returned
from the query
        //echo $row_count1;
        if ($row_count1 == 1) { //1 row returned: match made
            $from = TRUE;
        }else { //details not correct
            $from = FALSE;
        }

        //check name and account combo TO exists

```

```

$query2 = "SELECT c.first_name, c.last_name, a.account_id
          FROM customers AS c
          INNER JOIN accounts AS a
          USING ( customer_id )
          WHERE c.first_name = '$fn2'
          AND c.last_name = '$ln2'
          AND a.account_id = '$ac_id2'";
$result2 = @mysqli_query $dbc $query2;
$count_row2 = @mysqli_num_rows($result2);
//echo $count_row2;
if ($count_row2 == 1) //1 row returned: match made
    $to = TRUE;
} else //details not correct
    $to = FALSE;
}

//if the above queries are OK then UPDATE the account balances
if ($from && $to) {
    mysqli_query $dbc "START TRANSACTION" //start sql
transaction
    $query_from = "UPDATE accounts
                  SET balance = (balance - '$amount')
                  WHERE account_id = '$ac_id'";
    $result_from = @mysqli_query $dbc $query_from);

    if (mysqli_affected_rows $dbc) == 1 //it ran OK
        $transfer_from = TRUE;
    } else
        $transfer_from = FALSE;
    //mistakes[] = 'This transfer from you has
failed. line139';
}

//add amount to transferee account
if ($transfer_from) //if the above UPDATE FROM was OK
    $query_to = "UPDATE accounts
                SET balance = (balance + '$amount')
                WHERE account_id = '$ac_id2'";
    $result_to = mysqli_query $dbc $query_to);

    if (mysqli_affected_rows $dbc) == 1 //if UPDATE
TO ran OK
        $query_in = "INSERT INTO transactions
                    (to_account_id, from_account_id, amount)
                    VALUES ('$ac_id2',
'$ac_id', '$amount')";
        $result_in = @mysqli_query $dbc $query_in);
        mysqli_query $dbc "COMMIT" //complete all sql
queries

    $url = 'http://' . $_SERVER['HTTP_HOST'] .
dirname $_SERVER['PHP_SELF'];

    if ((substr $url -1) == '/') OR (substr $url, -1)
== '\\') {
        $url = substr ($url, 0, -1);
    }
    $url .= '/ch9/thanks.php?ac_id=' . $ac_id //?
ac_id=$ac_id added 28.9.12
    header("Location: $url");
    exit();
}

```

```

        }else{
            $mistakes[] = 'This transfer to transferee
has failed.';
            mysqli_query $dbc "ROLLBACK" //undo all sql
changes
        }
        }else{
            $mistakes[] = 'This transfer from you has failed';
            mysqli_query $dbc "ROLLBACK" //undo all sql
changes
        }
        }else{
            if (!$from && !$to){
                mysqli_query $dbc "ROLLBACK" //undo all sql
changes
                $mistakes[] = 'Your customer and transferee
details are not correct';
            }elseif (!$to){
                $mistakes[] = 'Your transferee details are not
correct';
            }elseif !$from ){
                $mistakes[] = 'Incorrect customer details have
been entered';
            }else{
                $mistakes[] = 'Incorrect details have been
entered.';
            }
        }
        //end of if check to see if input values existis TRUE
        //$page_title = 'Transfer Money';
        //include ('includes/header.html');
        echo '<h1>Mistakes!</h1>';
        <p class="error">The following mistakes occurred: <br />';
        foreach $mistakes as $msg //print out each relevant message
        echo " - $msg<br />\n";
        //print out mistakes

        echo '<p>Please try again.</p><p><br /></p>';
        @mysqli_close $dbc //close conx

    }else //errors array
        //$page_title = 'Transfer Money';
        //include ('includes/header.html');
        echo '<h1>Error!</h1>';
        <p class="error">The following errors occurred: <br />';
        foreach $errors as $msg //print out each relevant message
        echo " - $msg<br />\n";
        //print out errors

        echo '<p>Please try again.</p><p><br /></p>';

        //end of if(empty errors)

        @mysqli_close $dbc //close the db conx

    //end of the main Submit conditional
    //$page_title = 'Transfer Money';
    //include ('includes/header.html');
    <h1>Money Transfer</h1>
    <form action="transfer_cash_header.php" method="post">
        <h3>Transfer From</h3>

```

```
<p>Your Pin: <input type="password" name="pin" size="4" maxlength="4"
/></p>
<p>First Name: <input type="text" name="first_name" size="15"
maxlength="20"
value="<?php if(isset($_POST['first_name'])) echo
$_POST['first_name']; ?>" /></p>
<p>Last Name: <input type="text" name="last_name" size="15" maxlength="40"
value="<?php if(isset($_POST['last_name'])) echo
$_POST['last_name']; ?>" /></p>
<p>Account Number: <input type="text" name="ac_num" size="4" maxlength="4"
value="<?php if(isset($_POST['ac_num'])) echo $_POST['ac_num']; ?>"
/></p>
<p>Amount to be Transferred <br />&nbsp; &nbsp; &nbsp; (whole numbers
only): <input type="text" name="amount" size="7" maxlength="7"
value="<?php if(isset($_POST['amount'])) echo
$_POST['amount']; ?>" /></p>
<hr/>
<h3>Transfer To</h3>
<p>First Name: <input type="text" name="first_name2" size="15"
maxlength="20"
value="<?php if(isset($_POST['first_name2'])) echo
$_POST['first_name2']; ?>" /></p>
<p>Last Name: <input type="text" name="last_name2" size="15"
maxlength="40"
value="<?php if(isset($_POST['last_name2'])) echo
$_POST['last_name2']; ?>" /></p>
<p>Account Number: <input type="text" name="ac_num2" size="4"
maxlength="4"
value="<?php if(isset($_POST['ac_num2'])) echo $_POST['ac_num2']; ?
>" /></p>

<p><input type="submit" name="submit" value="Transfer" /></p>
</form>
<?php include ('includes/footer.html'); ?>
```