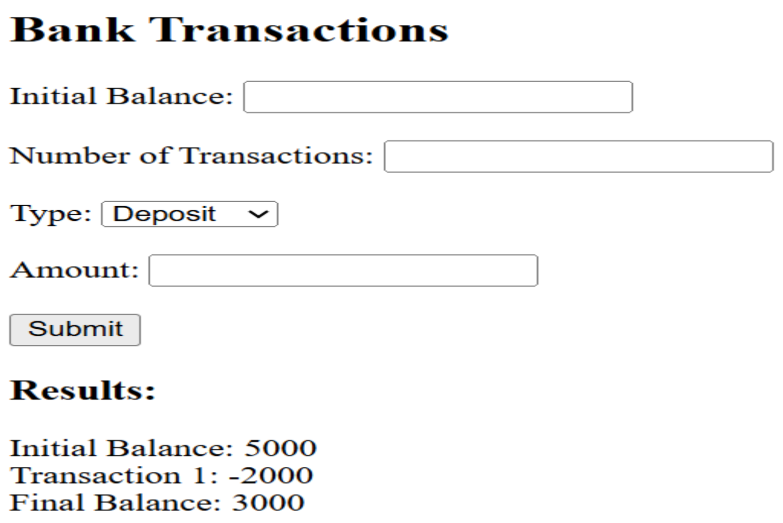
WDD CODING

1.CONTROL STRUCTURES

```
<!DOCTYPE html>
<html>
<head><title>Bank Transactions</title></head>
<body>
<h2>Bank Transactions</h2>
<form method="post">
  Initial Balance: <input type="number" name="initialBalance" required><br><br>
  Number of Transactions: <input type="number" name="numTransactions" required><br><br>
  Type:
  <select name="transactionType">
    <option value="deposit">Deposit</option>
    <option value="withdraw">Withdraw</option>
  </select><br><br>
  Amount: <input type="number" name="amount" required><br><br>
  <input type="submit" value="Submit">
</form>

<?php
if ($_SERVER["REQUEST_METHOD"]=="POST") {
  $bal=$_POST["initialBalance"];
  $n=$_POST["numTransactions"];
  $type=$_POST["transactionType"];
  $amt=$_POST["amount"];
  echo "<h3>Results:</h3>Initial Balance: $bal<br>";
  for($i=1;$i<=$n;$i++){
    if($type=="deposit"){ $bal+=$amt; echo "Transaction $i: +$amt<br>"; }
    elseif($type=="withdraw"){
      if($amt<=$bal){ $bal-=$amt; echo "Transaction $i: -$amt<br>"; }
      else echo "Transaction $i: Insufficient funds!<br>";
    }
  }
  echo "Final Balance: $bal";
}
?>
</body>
</html>
```

OUTPUT 👍



Bank Transactions

Initial Balance:

Number of Transactions:

Type: Deposit

Amount:

Results:

```
Initial Balance: 5000
Transaction 1: -2000
Final Balance: 3000
```

2.GET AND POST METHOD

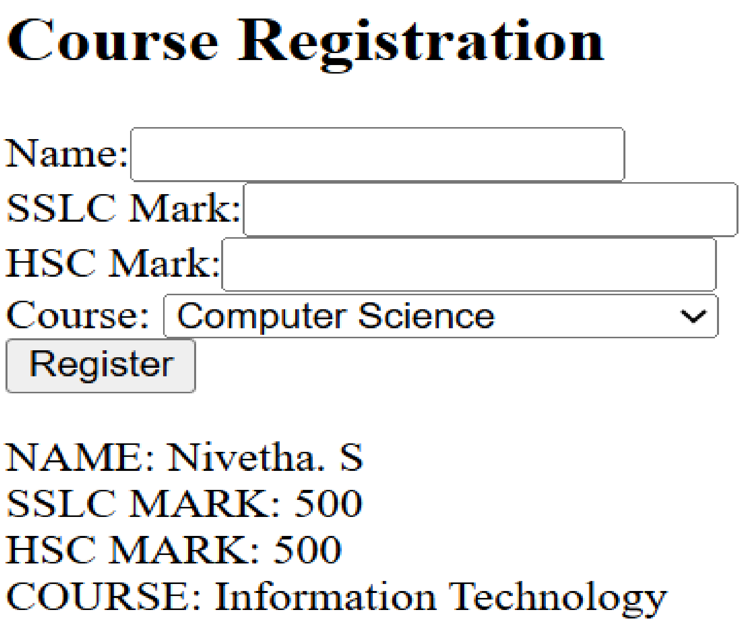
Registration.php

```
<h2>Course Registration</h2>
<form method="get">
  Name:<input type="text" name="name"><br>
  SSLC Mark:<input type="number" name="sslcmrk"><br>
  HSC Mark:<input type="number" name="hscmrk"><br>
  Course:
  <select name="course">
    <option>Computer Science</option>
    <option>CS with Cognitive Systems</option>
    <option>CS with AI</option>
    <option>Information Technology</option>
    <option>B.Sc CS with Cyber Security</option>
  </select><br>
  <input type="submit" name="submit" value="Register">
</form>
```

Course.php

```
<?php
if(isset($_GET["submit"])){
  echo "<h3>Registration Details</h3>";
  echo "NAME: ".$_GET["name"]."<br>";
  echo "SSLC MARK: ".$_GET["sslcmrk"]."<br>";
  echo "HSC MARK: ".$_GET["hscmrk"]."<br>";
  echo "COURSE: ".$_GET["course"];
}
?>
```

OUTPUT 👍



Course Registration

Name:
SSLC Mark:
HSC Mark:
Course: Computer Science

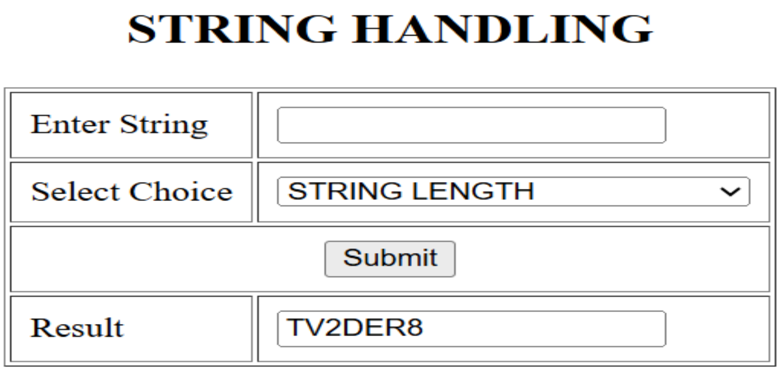
NAME: Nivetha. S
SSLC MARK: 500
HSC MARK: 500
COURSE: Information Technology

3.STRING FUNCTIONS

```
<?php
if(isset($_POST['disp'])){
  $s=$_POST['s']; $ch=$_POST['ch'];
  switch($ch){
    case 'STRING LENGTH': $res=strlen($s); break;
    case 'WORD COUNT': $res=str_word_count($s); break;
    case 'STRING REVERSE': $res=strrev($s); break;
    case 'POSITION OF A CHARACTER': $res=strpos($s,"a"); break;
    case 'STRING REPLACE': $res=str_replace("hello","world",$s); break;
    case 'STRING SPLIT': $res=implode(" ",str_split($s)); break;
    case 'PASSWORD GENERATOR':
$res=substr(str_shuffle("1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghij
klmnopqrstuvwxyz"),0,7); break;
  }
}
?>
<h2 style="text-align:center;">STRING HANDLING</h2>
<form method="post">
  <table border="1" align="center" cellpadding="8">
    <tr>
      <td>Enter String</td>
      <td><input type="text" name="s"></td>
    </tr>
    <tr>
      <td>Select Choice</td>
      <td>
        <select name="ch">
          <option>STRING LENGTH</option>
          <option>WORD COUNT</option>
          <option>STRING REVERSE</option>
          <option>POSITION OF A CHARACTER</option>
          <option>STRING REPLACE</option>
          <option>STRING SPLIT</option>
          <option>PASSWORD GENERATOR</option>
        </select>
      </td>
    </tr>
        <tr>
```

```
   <td colspan="2" align="center">
    <input type="submit" name="disp" value="Submit">
   </td>
  </tr>
   <tr>
   <td>Result</td>
   <td><input type="text" value="<?php echo @$res; ?>" readonly></td>
  </tr>

 </table>
</form>
```

OUTPUT 👍



STRING HANDLING

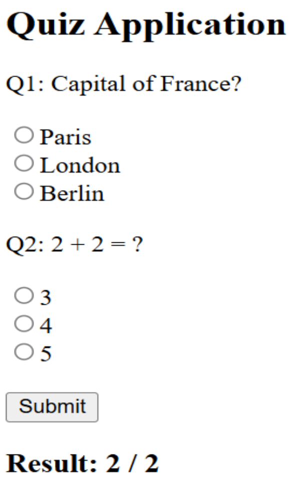
Enter String	
Select Choice	STRING LENGTH
Submit	
Result	TV2DER8

4.ARRAY

```
<h2>Quiz Application</h2>
<form method="post">
 Q1: Capital of France?<br><br>
 <input type="radio" name="q1" value="Paris" required>Paris <br>
 <input type="radio" name="q1" value="London">London <br>
 <input type="radio" name="q1" value="Berlin">Berlin<br><br>

 Q2: 2 + 2 = ?<br><br>
 <input type="radio" name="q2" value="3">3 <br>
 <input type="radio" name="q2" value="4" required>4 <br>
 <input type="radio" name="q2" value="5">5<br><br>
```

```
  <input type="submit" name="submit" value="Submit">
</form>

<?php
if(isset($_POST['submit'])){
  $correct=['q1'=>'Paris','q2'=>'4'];
  $user=['q1'=>$_POST['q1'],'q2'=>$_POST['q2']];
  $score=0;
  foreach($user as $q=>$ans){ if($ans==$correct[$q]) $score++; }
  echo "<h3>Result: $score / 2</h3>";
}
?>
```

OUTPUT 👍



Quiz Application

Q1: Capital of France?

○ Paris
○ London
○ Berlin

Q2: 2 + 2 = ?

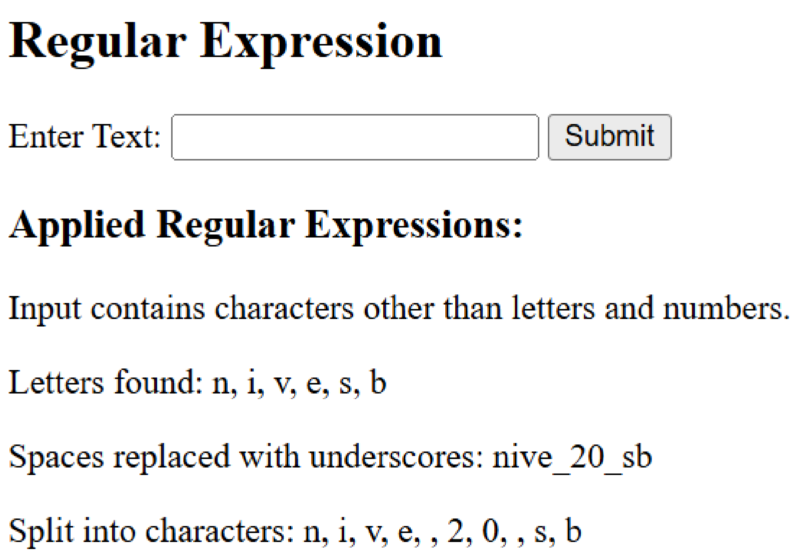
○ 3
○ 4
○ 5

Result: 2 / 2

5. REGULAR EXPRESSION

```
<h2>Regular Expression</h2>
<form method="post">
  Enter Text: <input type="text" name="input_text" required>
  <input type="submit" value="Submit">
</form>

<?php
if(isset($_POST["input_text"])){
  $txt=$_POST["input_text"];
  echo "<h3>Applied Regular Expressions:</h3>";

  // Check letters and numbers only
  if(preg_match('/^[a-zA-Z0-9]+$/',$txt))
    echo "<p>Input contains only letters and numbers.</p>";
  else
    echo "<p>Input contains characters other than letters and numbers.</p>";

  // Find all letters
  preg_match_all('/[a-zA-Z]/',$txt,$m);
  echo "<p>Letters found: ".implode(", ",$m[0])."</p>";

  // Replace spaces
  echo "<p>Spaces replaced with underscores: ".preg_replace('/\s+/','_',$txt)."</p>";

  // Split into characters
  echo "<p>Split into characters: ".implode(",
",preg_split('//u',$txt,-1,PREG_SPLIT_NO_EMPTY))."</p>";
}
?>
```

OUTPUT 👍



Regular Expression

Enter Text: [ ] Submit

Applied Regular Expressions:

Input contains characters other than letters and numbers.

Letters found: n, i, v, e, s, b

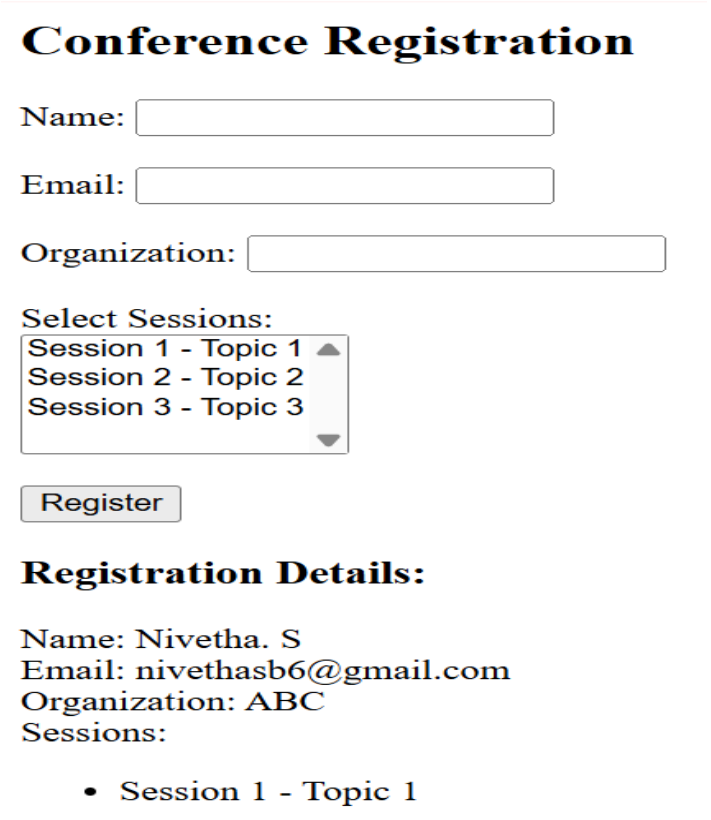
Spaces replaced with underscores: nive_20_sb

Split into characters: n, i, v, e, , 2, 0, , s, b

6.FORM HANDLING

```
<h2>Conference Registration</h2>
<form method="post">
  Name: <input type="text" name="name" required><br><br>
  Email: <input type="email" name="email" required><br><br>
  Organization: <input type="text" name="organization" required><br><br>
  Select Sessions:<br>
  <select name="sessions[]" multiple required>
    <option>Session 1 - Topic 1</option>
    <option>Session 2 - Topic 2</option>
    <option>Session 3 - Topic 3</option>
  </select><br><br>
  <input type="submit" name="submit" value="Register">
</form>

<?php
if(isset($_POST['submit'])){
  echo "<h3>Registration Details:</h3>";
  echo "Name: ".$_POST['name']."<br>";
  echo "Email: ".$_POST['email']."<br>";
  echo "Organization: ".$_POST['organization']."<br>";
  echo "Sessions:<ul>";
  foreach($_POST['sessions'] as $s) echo "<li>$s</li>";
  echo "</ul>";
}
?>
```

OUTPUT 👍



Conference Registration

Name:

Email:

Organization:

Select Sessions:
Session 1 - Topic 1
Session 2 - Topic 2
Session 3 - Topic 3

Registration Details:

Name: Nivetha. S
Email: nivethasb6@gmail.com
Organization: ABC
Sessions:

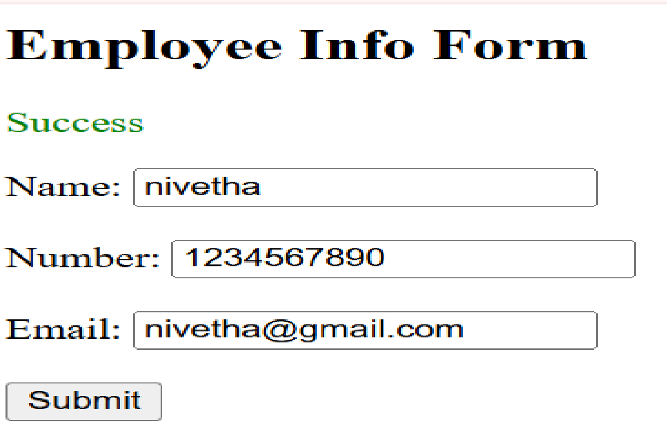
- Session 1 - Topic 1

7.SERVER LINK VALIDATION

```
<?php
if(isset($_POST['Submit'])){
  $name=trim($_POST["emp_name"]);
  $num=trim($_POST["emp_number"]);
  $email=trim($_POST["emp_email"]);

  if($name=="") $error="Enter Name";
  elseif($num=="") $error="Enter Number";
  elseif(!is_numeric($num)) $error="Number must be numeric";
  elseif(strlen($num)<10) $error="Number must be 10 digits";
  elseif($email=="") $error="Enter Email";
  elseif(!preg_match("/^[\w.-]+@[\w.-]+\.[A-Za-z]{2,6}$/",$email)) $error="Invalid Email";
  else $success="Success";
}
?>
```

```
<h2>Employee Info Form</h2>
<?php if(isset($error)) echo "<p style='color:red'>$error</p>"; ?>
<?php if(isset($success)) echo "<p style='color:green'>$success</p>"; ?>

<form method="post">
  Name: <input type="text" name="emp_name" value="<?= $name ?? '' ?>"><br><br>
  Number: <input type="text" name="emp_number" value="<?= $num ?? ''
?>"><br><br>
  Email: <input type="text" name="emp_email" value="<?= $email ?? '' ?>"><br><br>
  <input type="submit" name="Submit" value="Submit">
</form>
```

OUTPUT 👍



Employee Info Form

Success

Name: nivetha

Number: 1234567890

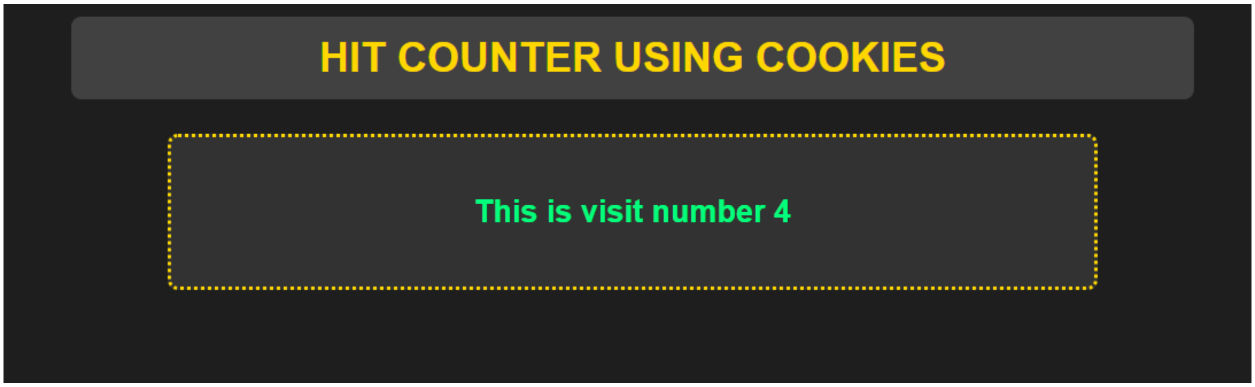
Email: nivetha@gmail.com

8.COOKIES

```
<?php
$visits = ($_COOKIE['visits'] ?? 0) + 1;
setcookie('visits', $visits, time() + 86400*365);
?>
<body style="background:#222; font-family:Arial, sans-serif; color:#fff;">
<h2 style="text-align:center; background:#444; color:#FFD700; padding:10px;
width:50%; margin:auto; font-weight:bold; border-radius:6px;">
  HIT COUNTER USING COOKIES
</h2>
```

```
<div style="width:40%; margin:20px auto; text-align:center; border:2px dotted #FFD700;
padding:15px; background:#333; border-radius:6px;">
  <?php
    if($visits > 1)
        echo "<p style='color:#00FF7F; font-weight:bold; font-size:18px;'>This is visit
number $visits</p>";
    else
        echo "<p style='color:#FF6347; font-weight:bold; font-size:18px;'>Welcome to my
Website! Click here for a tour!</p>";
  ?>
</div>
</body>
```

OUTPUT 👍



HIT COUNTER USING COOKIES

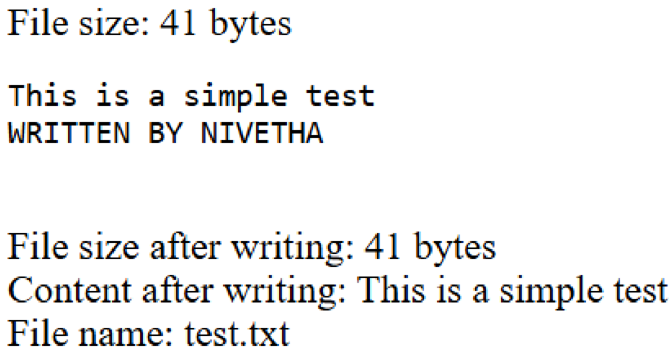
This is visit number 4

9.FILE READ AND WRITE

```
<!DOCTYPE html>
<html>
<head><title>File Read and Write</title></head>
<body>
<?php
$filename = "test.txt";   // keep file in same folder as PHP file
```

```
// Read before writing
if(file_exists($filename)){
    echo "File size: " . filesize($filename) . " bytes<br>";
    echo "<pre>" . file_get_contents($filename) . "</pre>";
}

// Write new content
file_put_contents($filename, "This is a simple test");

// Read after writing
echo "<br>File size after writing: " . filesize($filename) . " bytes<br>";
echo "Content after writing: " . file_get_contents($filename);
echo "<br>File name: $filename";
?>
</body>
</html>
```

OUTPUT 👍

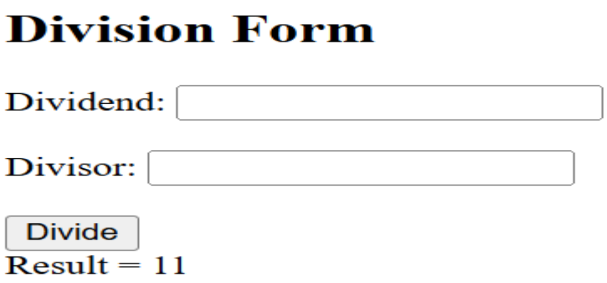


```
File size: 41 bytes

This is a simple test
WRITTEN BY NIVETHA


File size after writing: 41 bytes
Content after writing: This is a simple test
File name: test.txt
```

11. EXCEPTION

```
<!DOCTYPE html>
<html>
<head><title>Division Form</title></head>
<body>
<h2>Division Form</h2>
<form method="post">
  Dividend: <input type="number" name="dividend" required><br><br>
  Divisor: <input type="number" name="divisor" required><br><br>
  <input type="submit" value="Divide">
</form>

<?php
class DivideByZeroException extends Exception {}
class DivideByNegativeNoException extends Exception {}

function checkDivisor($a, $b){
  try {
    if($b == 0) throw new DivideByZeroException();
    if($b < 0) throw new DivideByNegativeNoException();
    echo "Result = " . ($a / $b);
  }
  catch(DivideByZeroException) { echo "Error: Cannot divide by Zero!"; }
  catch(DivideByNegativeNoException) { echo "Error: Divisor cannot be Negative!"; }
}

if($_POST){
  checkDivisor($_POST["dividend"], $_POST["divisor"]);
}
?>
</body>
</html>
```

OUTPUT 👍



Division Form

Dividend:

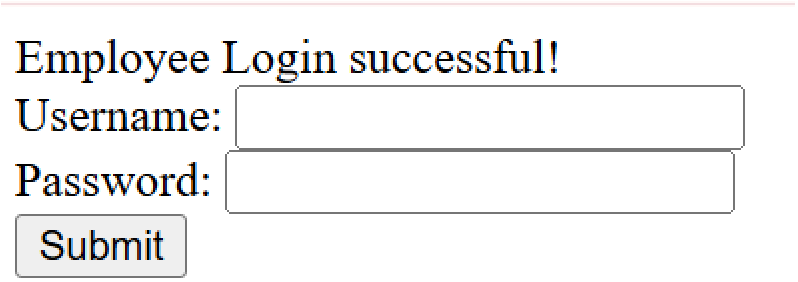
Divisor:

Result = 11

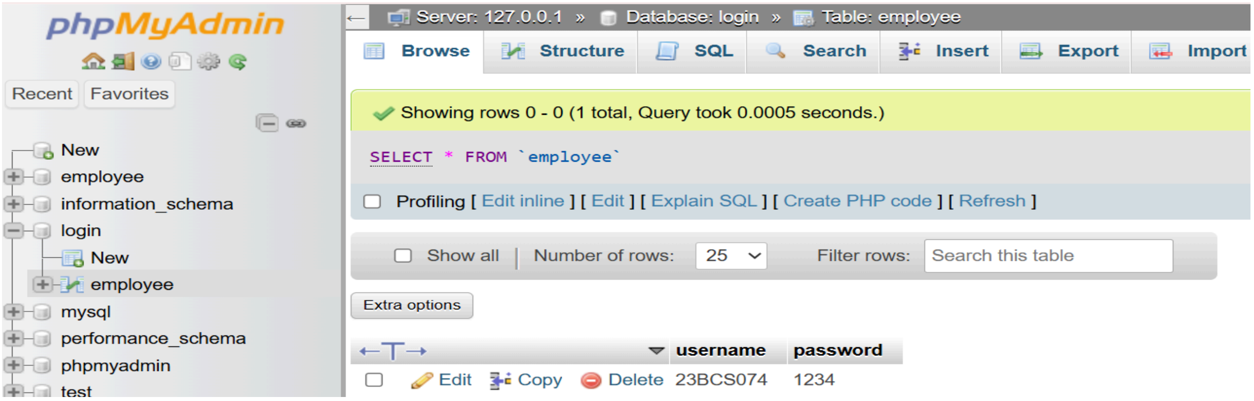
12.DATABASE CONNECTIVITY

```
<?php
$conn = new mysqli("127.0.0.1:3306", "root", "", "login");
if ($conn->connect_error) die("Connection failed: " . $conn->connect_error);

if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $u = $_POST['username'];
   $p = $_POST['password'];
   if ($conn->query("INSERT INTO employee (username, password) VALUES
('$u','$p')") === TRUE) {
      echo "Employee Login successful!";
   } else {
      echo "Error: " . $conn->error;
   }
}
?>
<form method="post">
   Username: <input type="text" name="username" required><br>
   Password: <input type="text" name="password" required><br>
   <button type="submit">Submit</button>
</form>
```

OUTPUT 👍



Employee Login successful!



✓ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

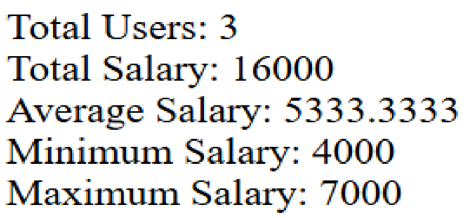
```
SELECT * FROM `employee`
```

	username	password
□ Edit Copy Delete	23BCS074	1234

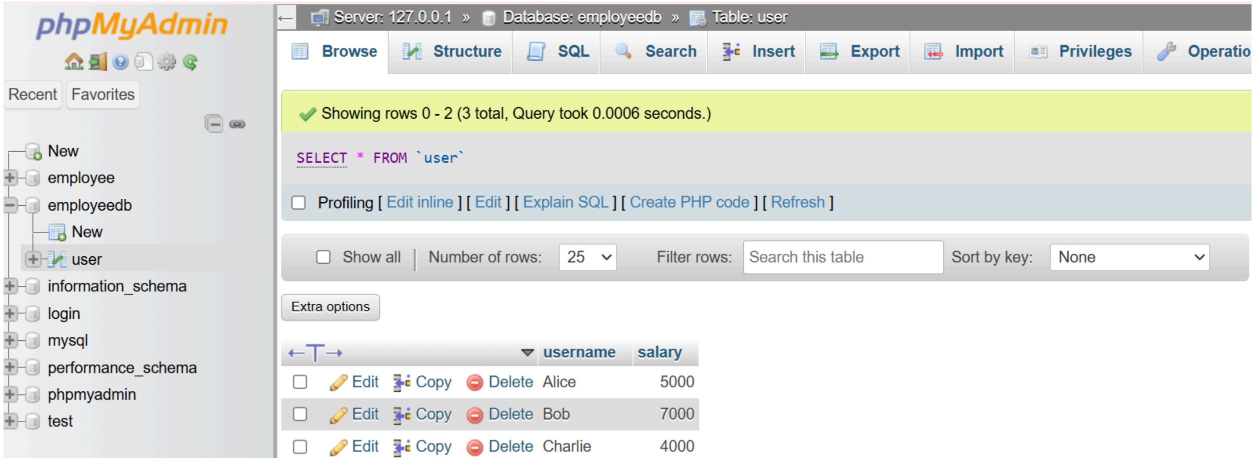
13. MY SQL

```
<?php
$conn = new mysqli("localhost:3306", "root", "", "employeedb");
if ($conn->connect_error) die("Connection failed: " . $conn->connect_error);

function agg($conn, $q, $l) {
    $r = $conn->query($q)->fetch_assoc();
    echo "$l: " . $r[array_key_first($r)] . "<br>";
}

agg($conn, "SELECT COUNT(*) as total_users FROM user", "Total Users");
agg($conn, "SELECT SUM(salary) as total_salary FROM user", "Total Salary");
agg($conn, "SELECT AVG(salary) as avg_salary FROM user", "Average Salary");
agg($conn, "SELECT MIN(salary) as min_salary FROM user", "Minimum Salary");
agg($conn, "SELECT MAX(salary) as max_salary FROM user", "Maximum Salary");

$conn->close();
?>
```

OUTPUT 👍



```
Total Users: 3
Total Salary: 16000
Average Salary: 5333.3333
Minimum Salary: 4000
Maximum Salary: 7000
```



✓ Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

```
SELECT * FROM `user`
```

□ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

				username	salary
□	Edit	Copy	Delete	Alice	5000
□	Edit	Copy	Delete	Bob	7000
□	Edit	Copy	Delete	Charlie	4000

CODE TO BE tYPE IN SQL TO INSERT VALUES:

```
INSERT INTO user (username, salary) VALUES
('Alice', 5000),
('Bob', 7000),
('Charlie', 4000);
```