



SUNWAY

INT'L BUSINESS SCHOOL



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Assignment / Lab Sheet / Project / Case Study No. 2

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1.

a. With an example, explain the usage of htmlspecialchars() function

Answer: The htmlspecialchars() function converts some predefined characters to HTML entities. It is the in-built function of PHP, which converts all pre-defined characters to the HTML entities. The htmlspecialchars() function accepts an input string (\$string) and returns the new string with the special characters converted into HTML entities.

\$string: This parameter contains the input string.

\$flags: This parameter is used to hold the one or more flags from following, which specify how to handle invalid code unit sequences, quotes, and the used document type.

encoding: It is an optional parameter, which defines the encoding which is used when characters are converted. The default value of encoding varies on PHP versions.

\$double_encode: PHP cannot encode existing HTML entities when the double_encode is turned off. The default is to convert everything.

Example:

```
<?php
$str = "Ram & 'Sita'";
echo htmlspecialchars($str, ENT_COMPAT); // Will only convert double quotes
echo "<br>";
?>
```

Output:

Ram & 'Sita'

b. Write PHP code to show differences between local and global variables.

Answer:

Local Variables A variable declared in a function is considered local; that is, it can be referenced solely in that function.

Example:

```
<?php
function myTest() {
    $x = 5; // local scope
    echo "<p>Variable x inside function is: $x</p>";
}
myTest();
// using x outside the function will generate an error
echo "<p>Variable x outside function is: $x</p>";
?>
```

Output:

Variable x inside function is: 5
Variable x outside function is:

Global variables are those variables which are declared outside of all the functions or block and can be accessed globally in a program

Example:

```
<?php
$x = 5; // global scope
function myTest() {
    // using x inside this function will generate an error
    echo "<p>Variable x inside function is: $x</p>";
}
myTest();
echo "<p>Variable x outside function is: $x</p>";
?>
```

Output:

Variable x inside function is:
Variable x outside function is: 5

2. For the figure given below:

a) Write required HTML and PHP code for the following figure:

database.php

```
<?php
    $servername='localhost';
    $username='root';
    $password='';
    $dbname = "sunway";
    $conn=mysqli_connect($servername,$username,$password,"$dbname");
    if(!$conn){
        die('Could not Connect MySql Server:' .mysql_error());
    }
?>
```

registration1.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <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>Registration</title>
</head>
<body>
    <div>
        <fieldset style= "width: 50%;">
            <legend><b>Enter the student details</b></legend>

            <form action="registration1.php" method="post">
                <table>
                    <tr>
                        <td>Name</td>
                        <td> <input type="text" Name="name"></td>

                    </tr>
                    <tr>
                        <td>Marks obtained</td>
                        <td> <input type="text" Name="Subject1" placeholder="Subject1"></td>
                        <td> <input type="text" Name="Subject2" placeholder="Subject2"></td>
                        <td> <input type="text" Name="Subject3" placeholder="Subject3"></td>
                    </tr>
                </table>
            </form>
        </fieldset>
    </div>
</body>
</html>
```

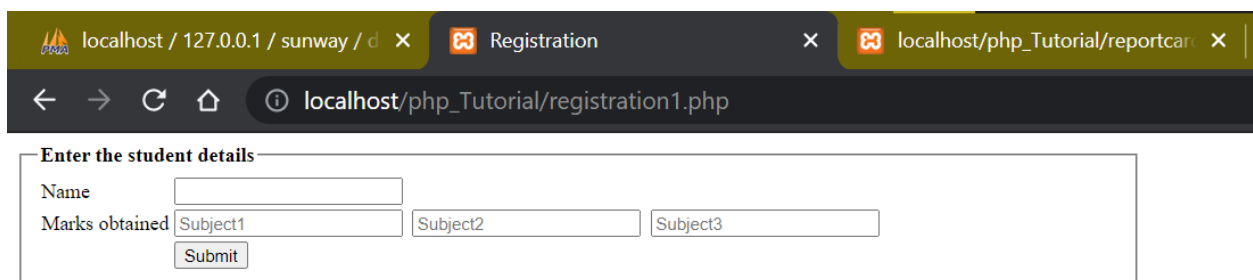
```

        </tr>
        <tr>
            <td> </td>
            <td> <input type="submit" name="submit"> </td>
        </tr>
    </table>
</form>
</fieldset>
</div>
<?php
include_once 'database.php';
// $name=$Subject1=Subject2=Subject3="";
if(isset($_POST['submit']))
{
    $name = $_POST['name'];
    $Subject1= $_POST['Subject1'];
    $Subject2= $_POST['Subject2'];
    $Subject3 = $_POST['Subject3'];

    $sql = "INSERT INTO details (name,Subject1,Subject2, Subject3)
VALUES ('$name','$Subject1','$Subject2','$Subject3')";
    if (mysqli_query($conn, $sql)) {
        echo "New record has been added successfully !";
    } else {
        echo "Error: " . $sql . ":-" . mysqli_error($conn);
    }
    mysqli_close($conn);
}
?>
</body>
</html>

```

Output:



The screenshot shows a web browser window with three tabs: 'localhost / 127.0.0.1 / sunway / d', 'Registration', and 'localhost/php_Tutorial/reportcard'. The address bar shows 'localhost/php_Tutorial/registration1.php'. The page content displays a form titled 'Enter the student details' with the following fields and a submit button:

Name	<input type="text"/>		
Marks obtained	<input type="text" value="Subject1"/>	<input type="text" value="Subject2"/>	<input type="text" value="Subject3"/>
<input type="submit" value="Submit"/>			

b) For the fig .1 write required PHP code to collect form data and insert it into database table, with following structure :

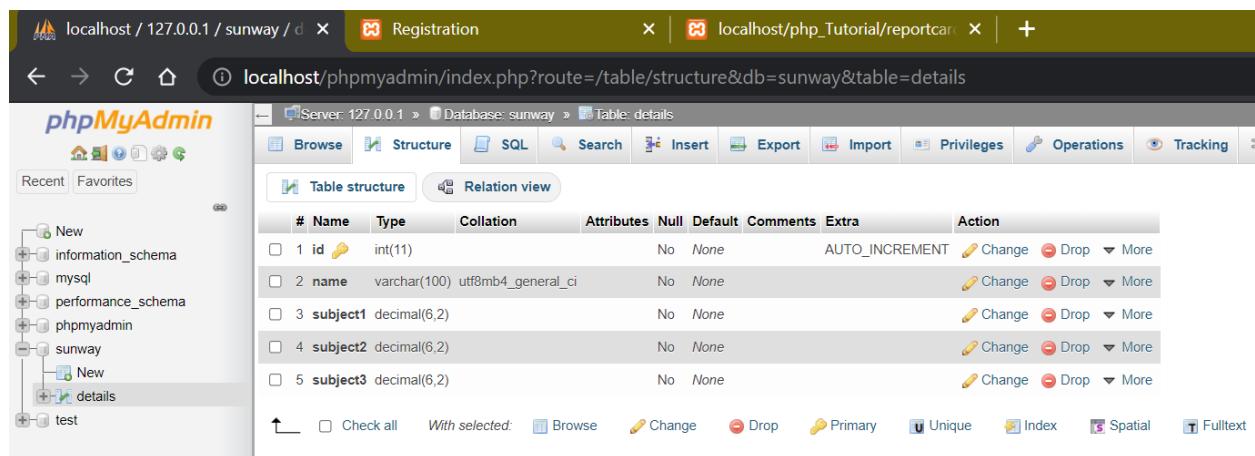
Creating Database

Create database sunway;

use sunway;

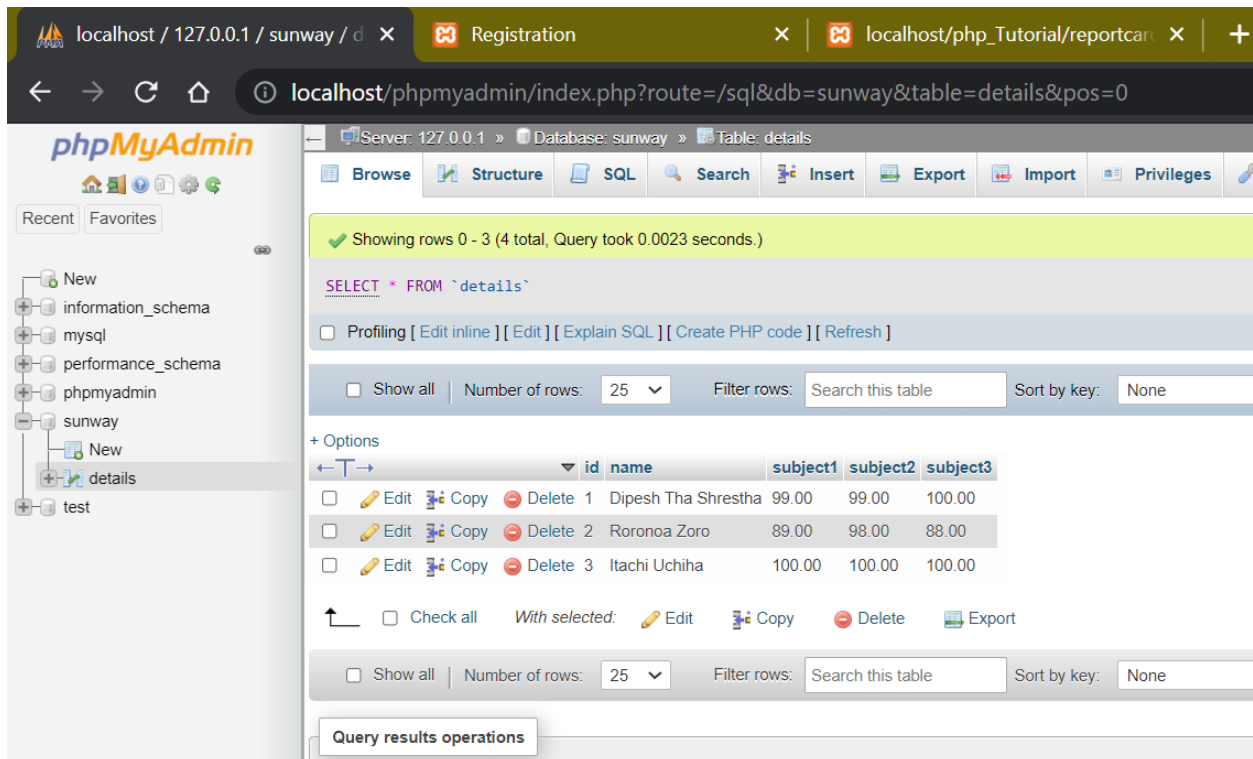
```
CREATE TABLE details ( id INT NOT NULL AUTO_INCREMENT , name  
VARCHAR(100) NOT NULL , subject1 DECIMAL(6,2) NOT NULL , subject2  
DECIMAL(6,2) NOT NULL , subject3 DECIMAL(6,2) NOT NULL , PRIMARY  
KEY (id))
```

Output:



The screenshot shows the phpMyAdmin interface in a web browser. The address bar indicates the URL: localhost/phpmyadmin/index.php?route=/table/structure&db=sunway&table=details. The interface displays the table structure for the 'details' table in the 'sunway' database. The table has five columns: 'id' (int(11), PRIMARY, AUTO_INCREMENT), 'name' (varchar(100)), 'subject1' (decimal(6,2)), 'subject2' (decimal(6,2)), and 'subject3' (decimal(6,2)). The 'id' column is the primary key. The interface includes a sidebar with a database tree and a top navigation bar with various tools like Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Tracking.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
3	subject1	decimal(6,2)			No	None			Change Drop More
4	subject2	decimal(6,2)			No	None			Change Drop More
5	subject3	decimal(6,2)			No	None			Change Drop More



c) Fetch the result from the table in fig. 2 and display the result as shown in figure below: NOTE: use function to calculate average marks

reportcard.php

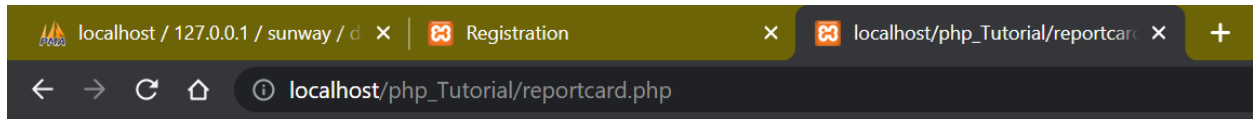
```
<html>
  <body>
    <?php
      $conn=mysqli_connect("localhost","root","","sunway");
      $sql="SELECT *from details";
      $result=mysqli_query($conn,$sql) or die("Query Unsuccessful");
      if(mysqli_num_rows($result)>0)
      {
        ?>
        <form > <fieldset style="width: 50%;">
        <h3>Student Report Card</h3>
```

```

<table border="1" cellpadding="10" cellspacing="0">
    <tr>
        <th>Name</th>
        <th colspan="3">Subjects</th>
        <th>Average Mark</th>
    </tr>
    <?php
    $i=0;
    while($row=mysqli_fetch_array($result))
    {
        $i=$i+1;
        ?>
        <tr>
            <td>
                <?php echo $row["name"]; ?>
            </td>
            <td style="padding-left: 30px;"> <?php echo $row["subject1"]; ?></td>
            <td style="padding-left: 30px;"><?php echo $row["subject2"]; ?></td>
            <td style="padding-left: 30px;"><?php echo $row["subject3"]; ?></td>
            <td>
                <?php
                $s1=$row["subject1"];
                $s2=$row["subject2"];
                $s3=$row["subject3"];
                $avg=($s1+$s2+$s3)/3;
                echo $avg;
                ?>
            </td>
        </tr>
        <?php } ?>
    </table>
    <?php } ?>
</fieldset>
</form>
</body>
</html>

```

Output:



Student Report Card

Name	Subjects			Average Mark
Dipesh Tha Shrestha	99.00	99.00	100.00	99.333333333333
Roronoa Zoro	89.00	98.00	88.00	91.666666666667
Itachi Uchiha	100.00	100.00	100.00	100

Thank You