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<b>ID Number:AM2311015184</b>		
<b>Lecturer: SITI ROBAYA</b>		<b>Lab group / Tutorial group / Tutor (if applicable):</b>
<b>Course and Course Code: Web Application Development SWC2363</b>		<b>Submission Date: 25/FEB/2025</b>
<b>Assignment No. / Title: Lab Task</b>		<b>Extension &amp; Late submission: Disallowed</b>
<b>Assignment Type: INDIVIDUAL</b>	<b>% of Assignment Mark</b>	<b>Returning Date:</b>
<b>Penalties:</b> <ol style="list-style-type: none"> <li>10% of the original mark will be deducted for every one week period after the submission date.</li> <li>No work will be accepted after two weeks of the deadline.</li> <li>If you were unable to submit the coursework on time due to extenuating circumstances you may be eligible for an extension.</li> <li>Extension will not exceed one week.</li> </ol>		
<b>Declaration:</b> I/we the undersigned confirm that I/we have read and agree to abide by these regulations on plagiarism and cheating. I/we confirm that this piece of work is my/our own. I/we consent to appropriate storage of our work for checking to ensure that there is no plagiarism/ academic cheating.		
<b>Signature(s):</b>  <b>Full Name(s): IZZRIEQ ILLHAN PAHLAVI BIN MOHAMMAD REDHA PAHLAVI</b>		
<b>This section may be used for feedback or other information</b>		

## Source Code :

```
<?php
$routes = [
    "Shah Alam - Johor Bahru" => ["economy" => 35, "business" => 45],
    "Shah Alam - Kuantan" => ["economy" => 26, "business" => 36],
    "Shah Alam - Kuala Terengganu" => ["economy" => 36, "business" => 46]
];

function calculateFare($route, $ticketType, $numPassengers, $isStudent)
{
    global $routes;
    if (!isset($routes[$route][$ticketType])) {
        return "Invalid Route or Ticket Type";
    }

    $farePerPassenger = $routes[$route][$ticketType];
    $totalFare = $farePerPassenger * $numPassengers;

    if ($isStudent) {
        $totalFare *= 0.9;
    }

    return $totalFare;
}

$isFormComplete = false;

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = htmlspecialchars($_POST["name"]);
    $route = $_POST["route"];
    $numPassengers = intval($_POST["numPassengers"]);
    $ticketType = $_POST["ticketType"];
    $isStudent = isset($_POST["studentDiscount"]);

    if (
        !empty($name) &&
        !empty($route) &&
        $route !== "#" &&
        !empty($ticketType) &&
        $ticketType !== "#" &&
        $numPassengers > 0
    ) {

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    ) {
        $isFormComplete = true;
        $totalFare = calculateFare($route, $ticketType, $numPassengers, $isStudent);
    }
}
?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Bus Ticket Fare Calculator</title>
    <script src="https://cdn.tailwindcss.com"></script>
</head>

<body class="bg-gray-100 font-sans">
    <div class="container mx-auto p-4">
        <h2 class="text-2xl font-bold text-center my-4">Online Bus Ticket Fare
Calculator</h2>

        <div class="max-w-md mx-auto bg-white p-6 rounded shadow">
            <form method="post" id="fareForm" class="space-y-4" novalidate>
                <div>
                    <label class="block font-medium mb-1">Passenger Name:</label>
                    <input type="text" name="name" required class="w-full border
border-gray-300 rounded p-2" />
                </div>

                <div>
                    <label class="block font-medium mb-1">Route:</label>
                    <select name="route" required class="w-full border border-gray-300
rounded p-2">
                        <option value="" selected disabled>--Select--</option>
                        <?php
                            foreach ($routes as $routeKey => $fares) {
                                echo "<option value=\"\$routeKey\">\$routeKey</option>";
                            }
                        <?>
                    </select>
                </div>
            </form>
        </div>
    </div>

```

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        <div>
            <label class="block font-medium mb-1">Ticket Type:</label>
            <select name="ticketType" required class="w-full border
border-gray-300 rounded p-2">
                <option value="" disabled selected>--Select--</option>
                <option value="economy">Economy</option>
                <option value="business">Business</option>
            </select>
        </div>

        <div>
            <label class="block font-medium mb-1">Number of Passengers:</label>
            <input type="number" name="numPassengers" min="1" required
class="w-full border border-gray-300 rounded p-2" />
        </div>

        <div class="flex items-center">
            <input type="checkbox" name="studentDiscount" class="h-4 w-4
text-blue-600 border-gray-300 rounded" />
            <label class="ml-2 font-medium">Student Discount (10% Off)</label>
        </div>

        <div>
            <button type="submit" class="w-full bg-blue-600 text-white rounded
p-2 hover:bg-blue-700">Calculate Fare</button>
        </div>
    </form>
</div>

<?php if ($isFormComplete): ?>
    <div class="max-w-3xl mx-auto bg-white mt-8 p-6 rounded shadow">
        <h3 class="text-xl font-bold mb-4">Details</h3>
        <table class="min-w-full divide-y divide-gray-200">
            <tbody class="bg-white divide-y divide-gray-200">
                <tr>
                    <th class="px-6 py-3 text-left text-sm font-medium
text-gray-500">Passenger Name</th>
                    <td class="px-6 py-3 text-sm text-gray-900"><?= $name
?></td>

                </tr>
                <tr>

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                <th class="px-6 py-3 text-left text-sm font-medium
text-gray-500">Route</th>
                <td class="px-6 py-3 text-sm text-gray-900"><?= $route
?></td>
            </tr>
            <tr>
                <th class="px-6 py-3 text-left text-sm font-medium
text-gray-500">Ticket Type</th>
                <td class="px-6 py-3 text-sm text-gray-900"><?=
ucfirst($ticketType) ?></td>
            </tr>
            <tr>
                <th class="px-6 py-3 text-left text-sm font-medium
text-gray-500">Number of Passengers</th>
                <td class="px-6 py-3 text-sm text-gray-900"><?=
$numPassengers ?></td>
            </tr>
            <tr>
                <th class="px-6 py-3 text-left text-sm font-medium
text-gray-500">Student Discount</th>
                <td class="px-6 py-3 text-sm text-gray-900"><?= $isStudent
? "Yes (10% Off)" : "No" ?></td>
            </tr>
            <tr>
                <th class="px-6 py-3 text-left text-sm font-medium
text-gray-500">Total Fare (RM)</th>
                <td class="px-6 py-3 text-sm text-gray-900"><strong><?=
"RM" . number_format($totalFare, 2) ?></strong></td>
            </tr>
        </tbody>
    </table>
</div>
<?php endif; ?>
</div>

<div id="customAlert" class="hidden fixed inset-0 bg-black bg-opacity-50 flex
items-center justify-center">
    <div class="bg-white p-6 rounded shadow-lg max-w-sm mx-auto">
        <p class="text-lg mb-4">Please complete all required fields before
submitting the form.</p>
        <button id="closeAlert" class="w-full bg-blue-600 text-white rounded py-2
hover:bg-blue-700">Close</button>
    </div>
</div>

```

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        </div>
    </div>

    <script>
        document.addEventListener("DOMContentLoaded", function() {
            const form = document.getElementById('fareForm');
            const customAlert = document.getElementById('customAlert');
            const closeAlert = document.getElementById('closeAlert');

            form.addEventListener('submit', function(e) {
                const name = form.elements['name'].value.trim();
                const route = form.elements['route'].value;
                const ticketType = form.elements['ticketType'].value;
                const numPassengers = form.elements['numPassengers'].value;

                if (name === "" || route === "" || ticketType === "" || numPassengers
=== "") {
                    e.preventDefault();
                    customAlert.classList.remove('hidden');
                }
            });

            closeAlert.addEventListener('click', function() {
                customAlert.classList.add('hidden');
            });
        });
    </script>
</body>

</html>
```

Output :

### Online Bus Ticket Fare Calculator

Passenger Name:

IZZRIEQ ILLHAN PAHLAVI BIN MOHAMMAD REDHA

Route:

Shah Alam - Johor Bahru

Ticket Type:

Business

Number of Passengers:

1

☒ Student Discount (10% Off)

Calculate Fare

#### Details

Passenger Name	IZZRIEQ ILLHAN PAHLAVI BIN MOHAMMAD REDHA
Route	Shah Alam - Johor Bahru
Ticket Type	Business
Number of Passengers	1
Student Discount	Yes (10% Off)
Total Fare (RM)	<b>RM40.50</b>