**Task 1: Personal Information Page**

<?php

// Solution for (Task 1 : Personal Information Page)

$myName = "Mitul Hossen";

$age = 19;

$country = "Bangladesh";

$brifeIntroduction = "Hello, I'm $myName, I'm from $country, and I'm currently $age years old. I'm passionate about programming, and I love to learn new skills.";

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>My Personal Information</title>

</head>

<body>

<div class="container mt-3">

<div class="row justify-content-center">

<div class="col-md-6">

<div class="card border-primary">

<div class="card-header bg-primary text-white text-center">

<h2>My Personal Information</h2>

</div>

<div class="card-body">

<ul class="list-group">

<li class="list-group-item"><strong>My Name:</strong> <?php echo "{$myName}"; ?> </li>

<li class="list-group-item"><strong>My Age:</strong> <?php echo "{$age}";?></li>

<li class="list-group-item"><strong>My Country:</strong> <?php echo "{$country}";?></li>

<li class="list-group-item text-justify"><strong>My Brief Introduction:</strong> <?php echo "<br/>{$brifeIntroduction}";?></li>

</ul>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

**Task 2: Temperature Converter**

<!DOCTYPE html>

<html>

<head>

<title>Temperature Converter</title>

</head>

<body style="background-color: #f8f9fa;">

<div class="container mt-2">

<div class="row justify-content-center">

<div class="col-md-10">

<div class="card shadow-lg border border-primary">

<div class="card-header bg-primary text-white">

<h1 class="text-center">Temperature Converter</h1>

</div>

<div class="card-body">

<form method="post" action="<?php echo $\_SERVER['PHP\_SELF']; ?>">

<div class="mb-3">

<label for="temperature" class="form-label">Enter Temperature:</label>

<input type="number" id="temperature" name="temperature" class="form-control border border-primary" required>

</div>

<div class="mb-3">

<label for="conversion" class="form-label">Select Conversion:</label>

<select id="conversion" name="conversion" class="form-select border border-primary">

<option value="celsius\_to\_fahrenheit">Celsius to Fahrenheit</option>

<option value="fahrenheit\_to\_celsius">Fahrenheit to Celsius</option>

</select>

</div>

<button type="submit" class="btn btn-primary mx-auto d-block">Convert</button>

</form>

</div>

<?php

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$temperature = $\_POST["temperature"];

$conversion = $\_POST["conversion"];

$result = "";

if ($conversion === "celsius\_to\_fahrenheit") {

$result = ($temperature \* 9/5) + 32;

} elseif ($conversion === "fahrenheit\_to\_celsius") {

$result = ($temperature - 32) \* 5/9;

}

echo '<div class="card-footer bg-primary text-white text-center fw-bold">';

echo "Result : $temperature degrees " . ($conversion === "celsius\_to\_fahrenheit" ? "Celsius" : "Fahrenheit") . " is equal to " . number\_format($result, 2) . " degrees " . ($conversion === "celsius\_to\_fahrenheit" ? "Fahrenheit" : "Celsius");

echo '</div>';

}

?>

</div>

</div>

</div>

</div>

</body>

</html>

**Task 3: Grade Calculator**

<!DOCTYPE html>

<html>

<head>

<title>Grade Calculator</title>

</head>

<body>

<div class="container mt-3">

<div class="card shadow col-12">

<div class="card-header bg-warning text-dark">

<h1 class="text-center">Grade Calculator</h1>

</div>

<div class="card-body">

<div class="bg-primary mt-0 w-50 mx-auto h-auto border-warning text-center text-white fw-bold rounded">

<p class="py-2">Rule: A >=80 | B >=65 | C >=50 | D >=33 | F >33</p>

</div>

<form method="post" action="<?php echo $\_SERVER['PHP\_SELF']; ?>">

<div class="row text-center">

<div class="col-md-4">

<div class="mb-3">

<label for="score1" class="form-label fw-bold">Arabic:</label>

<input type="number" id="score1" name="score1" class="form-control border-warning" required>

</div>

</div>

<div class="col-md-4">

<div class="mb-3">

<label for="score2" class="form-label fw-bold">English:</label>

<input type="number" id="score2" name="score2" class="form-control border-warning" required>

</div>

</div>

<div class="col-md-4">

<div class="mb-3">

<label for="score3" class="form-label fw-bold">Bangla:</label>

<input type="number" id="score3" name="score3" class="form-control border-warning" required>

</div>

</div>

</div>

<button type="submit" class="btn btn-warning btn-block mx-auto d-block">Calculate</button>

</form>

</div>

<?php

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$score1 = $\_POST["score1"];

$score2 = $\_POST["score2"];

$score3 = $\_POST["score3"];

$average = ($score1 + $score2 + $score3) / 3;

$letter\_grade = "";

if ($average >= 80) {

$letter\_grade = "A";

} elseif ($average >= 65) {

$letter\_grade = "B";

} elseif ($average >= 50) {

$letter\_grade = "C";

} elseif ($average >= 33) {

$letter\_grade = "D";

} else {

$letter\_grade = "F";

}

echo '<div class="card-footer bg-success text-white m-0 fs-2 p-3 text-center row">';

echo '<div class="col-md-6"><p class="m-0">Average: <span class="bg-warning rounded p-2 px-4 m-0 fw-bold text-black">' . $average . ' </span></p></div>';

echo '<div class="col-md-6"><p class="m-0">Letter Grade: <span class="bg-warning rounded p-2 px-4 m-0 fw-bold text-black"> ' . $letter\_grade . '</span></p></div>';

echo '</div>';

}

?>

</div>

</div>

</body>

</html>

**Task 4: Even or Odd Checker**

<!DOCTYPE html>

<html>

<head>

<title>Even or Odd Checker</title>

</head>

<body>

<div class="container">

<div class="card shadow">

<div class="card-header bg-dark text-white text-center">

<h1>Even or Odd Checker</h1>

</div>

<div class="card-body">

<form method="post" action="<?php echo $\_SERVER['PHP\_SELF']; ?>">

<div class="mb-3">

<label for="number" class="form-label fw-bold">Enter a Number :</label>

<input type="number" id="number" name="number" placeholder="Enter a Number what you want to check" class="form-control border-dark fw-bold" required>

</div>

<button type="submit" class="btn btn-dark btn-block mx-auto d-block">Check</button>

</form>

</div>

<?php

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$number = $\_POST["number"];

$message = ($number == 0) ? "It's Zero." : (($number % 2 == 0) ? "$number is even." : "$number is odd.");

echo '<div class="card-footer bg-primary m-0 text-white text-center">';

echo '<p class="m-0 fs-2 fw-bold"> ' . $message . '</p>';

echo '</div>';

}

?>

</div>

</div>

</body>

</html>

**Task 5: Weather Report**

<!DOCTYPE html>

<html>

<head>

<title>Weather Report</title>

</head>

<body>

<div class="container">

<div class="card shadow">

<div class="card-header bg-dark text-white text-center">

<h1>Weather Report</h1>

</div>

<div class="card-body">

<div class="bg-primary mt-0 w-80 mx-auto h-auto border-warning text-center text-white fw-bold rounded">

<p class="py-2">Rule: It's freezing! >32 | It's cool! >=32 - < 60 | It's warm! >=60</p>

</div>

<form method="post" action="<?php echo $\_SERVER['PHP\_SELF']; ?>">

<div class="mb-3">

<label for="temperature" class="form-label fw-bold">Enter the temperature :</label>

<input type="number" id="temperature" name="temperature" placeholder="Enter the temperature" class="form-control border-dark fw-bold" required>

</div>

<button type="submit" class="btn btn-dark btn-block mx-auto d-block">Check Weather</button>

</form>

</div>

<?php

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$temperature = $\_POST["temperature"];

$result = "";

if ($temperature < 32) {

$result = "It's freezing!";

} elseif ($temperature >= 32 && $temperature < 60) {

$result = "It's cool!";

} else {

$result = "It's warm!";

}

echo '<div class="card-footer bg-primary m-0 text-white text-center">';

echo '<p class="m-0 fs-2 fw-bold"> ' . $result . '</p>';

echo '</div>';

}

?>

</div>

</div>

</body>

</html>

**Task 6: Comparison Tool**

<!DOCTYPE html>

<html>

<head>

<title>Comparison Tool</title>

<meta charset="utf-8">

</head>

<body>

<div class="container">

<div class="card">

<div class="card-header">

<h1 class="card-title">Comparison Tool</h1>

</div>

<div class="card-body">

<form method="post" action="">

<div class="row">

<div class="col-md-6">

<div class="form-group">

<label for="num1">First number:</label>

<input type="number" class="form-control" id="num1" name="num1">

</div>

</div>

<div class="col-md-6">

<div class="form-group">

<label for="num2">Second number:</label>

<input type="number" class="form-control" id="num2" name="num2">

</div>

</div>

</div>

<button type="submit" class="btn btn-primary btn-block" name="compare">Compare</button>

</form>

</div>

<?php

if (isset($\_POST['compare'])) {

$num1 = $\_POST['num1'];

$num2 = $\_POST['num2'];

$largerNumber = ($num1 > $num2) ? $num1 : $num2;

echo " <div style='font-size: 28px; font-weight: bold;' class='bg-dark fs-2 text-white card-footer p-2'><p class='fw-bolder m-0 fs-2 text-center'>The larger number is: $largerNumber</p></div>";

}

?>

</div>

</div>

</body>

</html>

**Task 7: Simple Calculator**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Basic Calculator</title>

<style>

<?php include "styles.css" ?>

</style>

</head>

<body>

<div class="container">

<h2>Basic Calculator</h2>

<form method="post" action="">

<input type="number" name="num1" placeholder="Enter first number" required><br>

<input type="number" name="num2" placeholder="Enter second number" required><br>

<select name="operation">

<option value="add">Addition</option>

<option value="subtract">Subtraction</option>

<option value="multiply">Multiplication</option>

<option value="divide">Division</option>

<option value="binary">Binary Conversion</option>

<option value="octal">Octal Conversion</option>

<option value="hexadecimal">Hexadecimal Conversion</option>

</select><br>

<button type="submit">Calculate</button>

</form>

<div id="result">

<?php

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$num1 = $\_POST["num1"];

$num2 = $\_POST["num2"];

$operation = $\_POST["operation"];

switch ($operation) {

case "add":

$result = $num1 + $num2;

echo "Result: $result";

break;

case "subtract":

$result = $num1 - $num2;

echo "Result: $result";

break;

case "multiply":

$result = $num1 \* $num2;

echo "Result: $result";

break;

case "divide":

if ($num2 != 0) {

$result = $num1 / $num2;

echo "Result: $result";

} else {

echo "Cannot divide by zero.";

}

break;

case "binary":

echo "Binary: " . decbin($num1);

break;

case "octal":

echo "Octal: " . decoct($num1);

break;

case "hexadecimal":

echo "Hexadecimal: " . dechex($num1);

break;

}

}

?>

</div>

</div>

</body>

</html>