

Ans to the ques. No. -1

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Vehicle Registration Form</title>
```

```
<style>
```

```
  body {
```

```
    font-family: Arial, sans-serif;
```

```
    margin: 20px;
```

```
  }
```

```
  form {
```

```
    max-width: 500px;
```

```
    margin: auto;
```

```
    border: 1px solid #ccc;
```

```
    padding: 20px;
```

```
    border-radius: 5px;
```

```
    background-color: #f9f9f9;
```

```
  }
```

```
  label {
```

```
    display: block;
```

```
    margin: 10px 0 5px;
```

```
  }
```

```
  input, select, textarea, button {
```

```
        width: 100%;
        padding: 8px;
        margin: 5px 0;
        box-sizing: border-box;
    }
</style>
</head>
<body>
    <h1>Vehicle Registration Form</h1>
    <form method="GET" action="form_response.php">
        <label for="owner">Name of Owner:</label>
        <input type="text" id="owner" name="owner" required>

        <label for="reg_num">Vehicle Registration Number:</label>
        <input type="text" id="reg_num" name="reg_num" required>

        <label for="engine_num">Engine Number:</label>
        <input type="text" id="engine_num" name="engine_num" required>

        <label for="cc">CC:</label>
        <input type="number" id="cc" name="cc" required>

        <label for="district">Select District:</label>
        <select id="district" name="district" required>
            <option value="dhaka">Dhaka</option>
            <option value="chittagong">Chittagong</option>
            <option value="khulna">Khulna</option>
```

```
<option value="sylhet">Sylhet</option>
</select>
```

```
<label>Type of Vehicle:</label>
```

```
<input type="radio" id="private" name="vehicle_type" value="Private" required>
```

```
<label for="private">Private</label>
```

```
<input type="radio" id="commercial" name="vehicle_type" value="Commercial">
```

```
<label for="commercial">Commercial</label>
```

```
<label for="details">Additional Details:</label>
```

```
<textarea id="details" name="details" rows="4"></textarea>
```

```
<button type="submit">Submit (GET)</button>
```

```
</form>
```

```
<br>
```

```
<form method="POST" action="form_response.php">
```

```
<button type="submit">Submit (POST)</button>
```

```
</form>
```

```
</body>
```

```
</html>
```

Ans to the ques. No. -1(b)

Differences Between GET and POST

1. Visibility:

- GET appends form data in the URL and is visible to users.
- POST sends data in the HTTP request body and is not visible.

2. Security:

- GET is less secure as data is exposed in the URL.
- POST is more secure since data is hidden in the request body.

3. Data Length:

- GET has limitations on the length of URL parameters.
- POST can send large amounts of data.

4. Caching:

- GET requests can be cached.
- POST requests are not cached by browsers.

5. Use Case:

- GET is used for retrieving data.
- POST is used for sending data securely.

Ans to the ques. No. – 2(a)

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "GET" || $_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    // Initialize an error message array
```

```
    $errors = [];
```

```
    // Validate name of owner
```

```
    if (empty($_REQUEST["owner"])) {
```

```
        $errors[] = "Owner name is required.";
```

```
    }
```

```
    // Validate vehicle registration number
```

```
    if (empty($_REQUEST["reg_num"])) {
```

```
        $errors[] = "Vehicle registration number is required.";
```

```
    }
```

```
    // Validate engine number
```

```
    if (empty($_REQUEST["engine_num"])) {
```

```
        $errors[] = "Engine number is required.";
```

```
    }
```

```
    // Validate CC
```

```
    if (empty($_REQUEST["cc"]) || !is_numeric($_REQUEST["cc"])) {
```

```
        $errors[] = "CC is required and must be numeric.";
```

```
}

// Validate district
if (empty($_REQUEST["district"])) {
    $errors[] = "District is required.";
}

// Validate vehicle type
if (empty($_REQUEST["vehicle_type"])) {
    $errors[] = "Vehicle type is required.";
}

if (count($errors) > 0) {
    echo "<h3>Form Validation Errors:</h3><ul>";
    foreach ($errors as $error) {
        echo "<li>$error</li>";
    }
    echo "</ul>";
} else {
    echo "<h3>Form Submitted Successfully!</h3>";
    echo "<pre>";
    print_r($_REQUEST);
    echo "</pre>";
}
}
?>
```

Ans to the ques. No. -2(b)

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Event Listener Example</title>

</head>

<body>

  <button id="myButton">Click Me!</button>

  <script>

    const button = document.getElementById("myButton");

    button.addEventListener("click", function () {

      alert("Button was clicked!");

    });

  </script>

</body>

</html>
```

Ans to the ques. No. -3(a)

```
<?php
$num1 = 10;
$num2 = 5;
$addition = $num1 + $num2;
$subtraction = $num1 - $num2;
$multiplication = $num1 * $num2;
$division = $num1 / $num2;
$divisibility = $num1 % $num2;

echo "Addition: $addition<br>";
echo "Subtraction: $subtraction<br>";
echo "Multiplication: $multiplication<br>";
echo "Division: $division<br>";
echo "Divisibility: $divisibility<br>";
?>
```

Output:

- Addition: 15
- Subtraction: 5
- Multiplication: 50
- Division: 2
- Divisibility: 0