

# Module - 6

## Assignment 1 :-

### ① HTML Form :-

An HTML form is a section of a web page that allows the user to input data, which is then sent to a server for processing. It's created using the `<form>` tag.

### ② Purpose of the `<form>` tag :-

- Collect user data, Enable interaction
- Send data to a server - submit user input to server for processing, storage or further action.

### ③ Use of action attribute :-

The action attribute in the `<form>` tag specifies the URL where the form data will be sent when the form submitted.

e.g. `<form action = "action.php">`

### ④ What is use of the method attribute? :-

The method attribute in the `<form>` tag specifies the HTTP method used to send the form data to the server.

Common values :-

- ~~Get~~ • GET : Sends data as URL parameters (visible in the address bar)
- POST : Sends data in the request body (not visible in the address bar)

⑤ input type :-

text, password, email, number, checkbox, radio  
date, time, file, button. etc.

⑥ Role of <label> tag

A label is a text that describe an input field, making it easier for users to understand what to enter. It's like a name or title for the input box.

⑦

Textarea <input type = "text">

- multiline text input
- can be resized
- both opening, closing tag.
- Single line text input.
- fixed size
- be single self closing tag

⑧

use of the <select> tag

<select> tag is used for creating dropdown.

It allows the user to choose one option from list.

⑨

what is basic form validation?

Form validation means to check whether the input details are correct or not before we submit it.  
Its use to set the minimum number of characters required.

⑩

why are form important in real website?

## Assignment :- 2

- ① The tag used to create a form is <form></form>
- ② The attribute the defines where form data is sent is action.
- ③ The input type used to hide text is password.
- ④ The tag used to create a dropdown list is <select>
- ⑤ The attribute used to make a field mandatory is required.
- ⑥ The button that sends form data is called a Submit button.

## Assignment 3 :-

### Element / Attribute

### Purpose

- | Element / Attribute | Purpose                                |
|---------------------|--|
| i) <form>           | - defines an area for user input       |
| ii) <input>         | - gather input from user               |
| iii) <label>        | - Provide caption/text for an input.   |
| iv) <textarea>      | - Creates a multiple text input field. |
| v) <select>         | - Create a dropdown list               |
| vi) required        | - to make field mandatory              |

## Assignment 4 :-

input type for following fields.

① Username -

<input type = "text" name = "username">

② Password -

<input type = "password" name = "password">

③ Email address -

<input type = "email" name = "Email Address">

④ Mobile no -

<input type = "number" name = "mobile No.">

⑤ Date of Birth -

<input type = "Date" name = "dob">

## Assignment - 8

① GET Method :-

- GET is used to request data from a specified resource.

- Send data to server as URL Parameters

② Post method :-

The Post method is an HTTP request used to:

- Send data to a Server in the request body

- Create or update data on the Server.

③ Which method is more secure & why?

Post method is more secure because it does not display the data in URL / browser directly.

④ Which method is suitable for login forms?  
Post method is suitable for login form.

- It sends sensitive data (e.g. passwords) in the request body, not in URL.
- It's more secure than GET.

⑤ Real life use.

- i) GET & Search forms
  - Searching for "shoes" on Amazon:
- ii) POST & Logging in to Facebook

Assignment - 9

Corrected Code -

```

<form>
  <label for="name"> Name: </label>
  <input type="text" id="name" name="Name">
  <label for=""> UserName: </label>
  <input type="text" name="username" required>
  <label for=""> Submit </label>
  <input type="Submit" value="Submit">
</form>
  
```

Assignment - 10 :-

- ① Where are HTML forms used on a college website.
  - Registration form
  - Admission form
  - Login form
  - Feedback form

② Where are forms used on e-commerce website

- Registration/Login, Product Reviews, Contact/Feedback

③ Why is form validation important?

- Ensures accurate data: verifies user input matches expected format e.g. email, phone No. etc
- Prevents errors - Catches mistakes before submission e.g. invalid input.
- Improve user experience.
- Enhances Security.

④ What problems can occur if validation is not used?

→ If validation is not used problems can arise like

- Invalid data: Incorrect or incomplete data gets stored e.g. wrong email format.
- Security vulnerabilities: - Hackers can exploit unvalidated input e.g. SQL injection.