**Experiment 4: Create a Form with Various Input Elements**

**Aim:** To create a contact form with various input elements like text fields, radio buttons, checkboxes, and a submit button.

**Learning Objective (Handwritten by Students as per Blooms Taxonomy)**:

**Tools:** HTML, CSS

**Theory:**

An HTML or a Web form helps collect user input. HTML forms can have different fields, such as text areas, text boxes, radio buttons, checkboxes, drop-down lists, file uploads, etc.

The collected data can be validated on the client browser using JavaScript. After validation of form data on the client-side, the user clicks on the Submit button in the form. After this, data is sent to the server for further processing.

### Common HTML Form Tags

The following are some of the commonly used HTML tags to create web forms:

|  |  |
| --- | --- |
| **Tag** | **Description** |
| <form> | This tag defines an HTML form to receive input from the user. |
| <input> | Defines an input control. |
| <textarea> | Defines a multi-line input control. |
| <label> | Creates a caption for input elements. |
| <select> & <option> | Create a drop-down menu with various options. The <select> tag defines the selection or the drop-down, while the <option> tag represents all the options in the list. |
| <optgroup> | Creates a drop-down list of related options. |
| <fieldset> | Groups the related element in a web form. |
| <legend> | It defines a caption for the <fieldset> element. |
| <button> | Creates a clickable button. |
| <output> | It is used for defining the result of a calculation. |

HTML Form Controls

An HTML form has form controls, such as text fields, text areas, checkboxes, buttons, etc. It is a user interface control that acts as a point of connection between the user and the server. Here are some of the commonly used HTML form controls to gather data:

* Text Input Controls
* Password in an HTML Form
* Radio Button Control
* Checkbox Control
* Submit Button Control

**Implementation/Code:**

**Learning Outcomes (Handwritten by Students):**

**Course Outcomes (Handwritten by Students):**

**Program Outcomes(Handwritten by Students):**

**Program Specific Outcomes(Handwritten by Students):**

**Conclusion (Handwritten by Students):**

For Faculty Use:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Correction Parameters** | **Formative Assessment [40%]** | **Timely completion of Practical [40%]** | **Attendance/ Learning Attitude [20%]** |  | | |
| **Marks Obtained** |  |  |  |
|  |  |  |  |  |  |

**Quiz**

1. How do you create a text input field in HTML?
2. What is the difference between radio buttons and checkboxes?
3. How do you create a submit button in HTML?