HTML Form

An HTML form is used to collect user input. An HTML form facilitates the user to enter data that is to be sent to the server for processing such as name, email address, password, phone number, etc. HTML forms are required if you want to collect some data from of the site visitor.

Syntax Form

<form action="server url**" method**="get**/**post**" enctype**=="multipart**/**form-data**" >**

  //input controls e.g. textfield, textarea, radiobutton, button

</form>

The Action Attribute:

The action to be performed after the submission of the form is decided by the action attribute. Generally, the form data is sent to a webpage on the web server after the user clicks on the submit button.

The Method Attribute:

It is used to specify the HTTP method used to send data while submitting the form. There are two kinds of HTTP Methods, which are GET and POST. In the GET method, after the submission of the form, the form values will be visible and POST method invisible in the address bar of the new browser tab.

The entype attribute

The enctype attribute specifies how the form-data should be encoded when submitting it to the server. This value is necessary if the user will upload a file through the form. The enctype attribute can be used only if method="post".

HTML Form Tags

Tag	Descriptions
<input>	It defines an input control.
<textarea>	It defines a multi-line input control.
<label>	It defines a label for an input element.
<select>	It defines a drop-down list. Select boxes are used to allow users to select one or more than one option from a pull-down list of options.
<option>	It defines an option in a drop-down list.
<button type="submit**/**reset">**	It defines a clickable button. There are two type (Submit Button allows the user to send the form data to the web server. The Reset Button is used to clear the form data and use the default values.

An **<input>** element can be displayed in many ways, depending on the ***type*** attribute.

Type	Description
\<input type="text">	Displays a single-line text input field
\<input type="number">	Displays a single-line only number input field
\<input type="password">	Password fields are a type of text field in which the text entered is masked using asterisk or dots for prevention of user identity from another person who is looking onto the screen.
\<input type="radio">	Radio Buttons are used to let the user select exactly one option from a list of predefined options.
\<input type="checkbox">	Checkboxes are used to let the user select one or more options from a pre-defined set of options.
\<input type="date">	Displays a date (for submitting the form)
\<input type="email">	Displays a single line only email format input field. It validates the text for correct email address. You must use @ and . in this field.
\<input type="file">	File select boxes are used to allow the user to select a local file and send it as an attachment to the web server.

Example for Login Page

```
<!DOCTYPE html>

<html>

<body>


<h1>The Login Form </h1>

   <form action="#" method="post" enctype="multipart/form-data" >

         <label for="uid">User Id </label><br>

         <input type="text" name="userid" placeholder="User Id" > <br>

         <label for="upass">Password </label><br>

         <input type="password" name="upass" placeholder="Password" >  <br><br>

         <button type="reset"> Clear </button>

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


<label for="mes"> If you have not User Id then create new Account <br>click below button </label><br>

 <a href="signup.html"> <button type="button"> Create New Account/Registration </button></a>


</body>

</html>
```
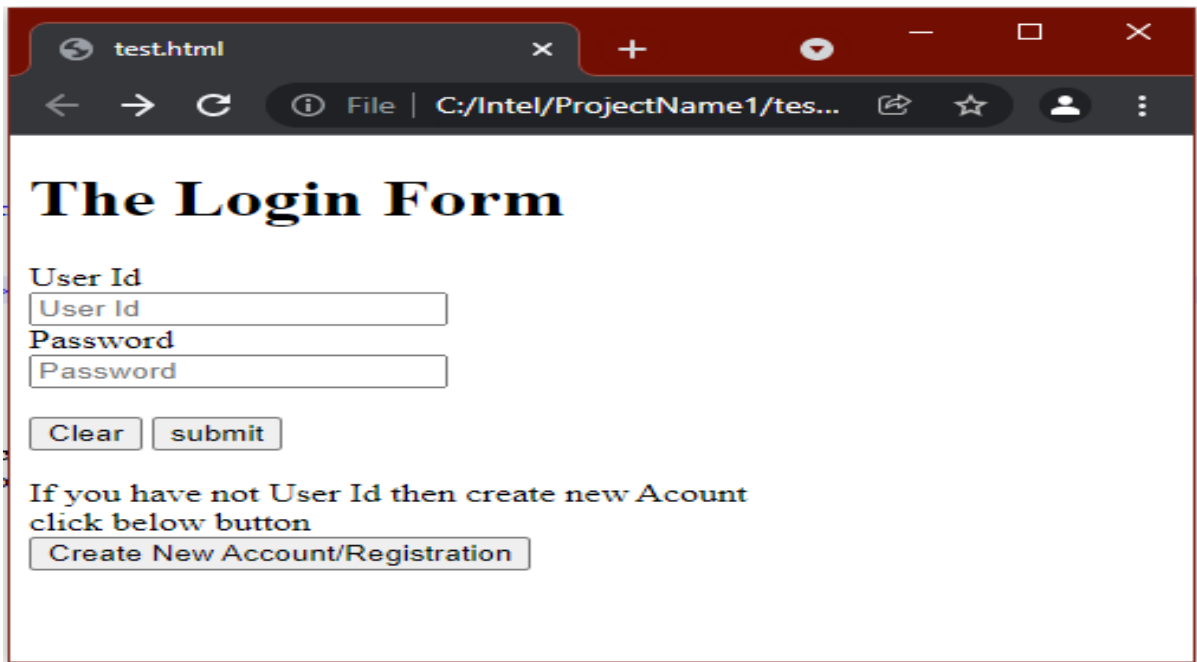
Example Signup/Registration Form

```
<!DOCTYPE html>
<html>
<body>
<h1>The Signup/Registration  Form </h1>
<form action="#" method="post" enctype="multipart/form-data" >
    <label for="uid">User Id </label><br>
    <input type="email" name="userid" placeholder="User Id" ><br>
    <label for="fullname">Full Name </label><br>
    <input type="text" name="fullname" placeholder="Full Name" ><br>
    <label for="upass">Password </label><br>
    <input type="password" name="upass" placeholder="Password" >  <br><br>
    <label for="age">Age </label><br>
    <input type="number" name="age" placeholder="Age" min="18" max="110" ><br> <br>
    <label for="gender">Gender </label><br>
    <input type="radio" name="gender" value="Male" >Male <br>
    <input type="radio" name="gender" value="Female" >Female <br>
    <input type="radio" name="gender" value="Custom" >Custom <br><br>
    <label for="country">Chose Country Name </label><br>
    <select name="country"  width="150">
        <option value="Pakistan"> Pakistan </option>
```
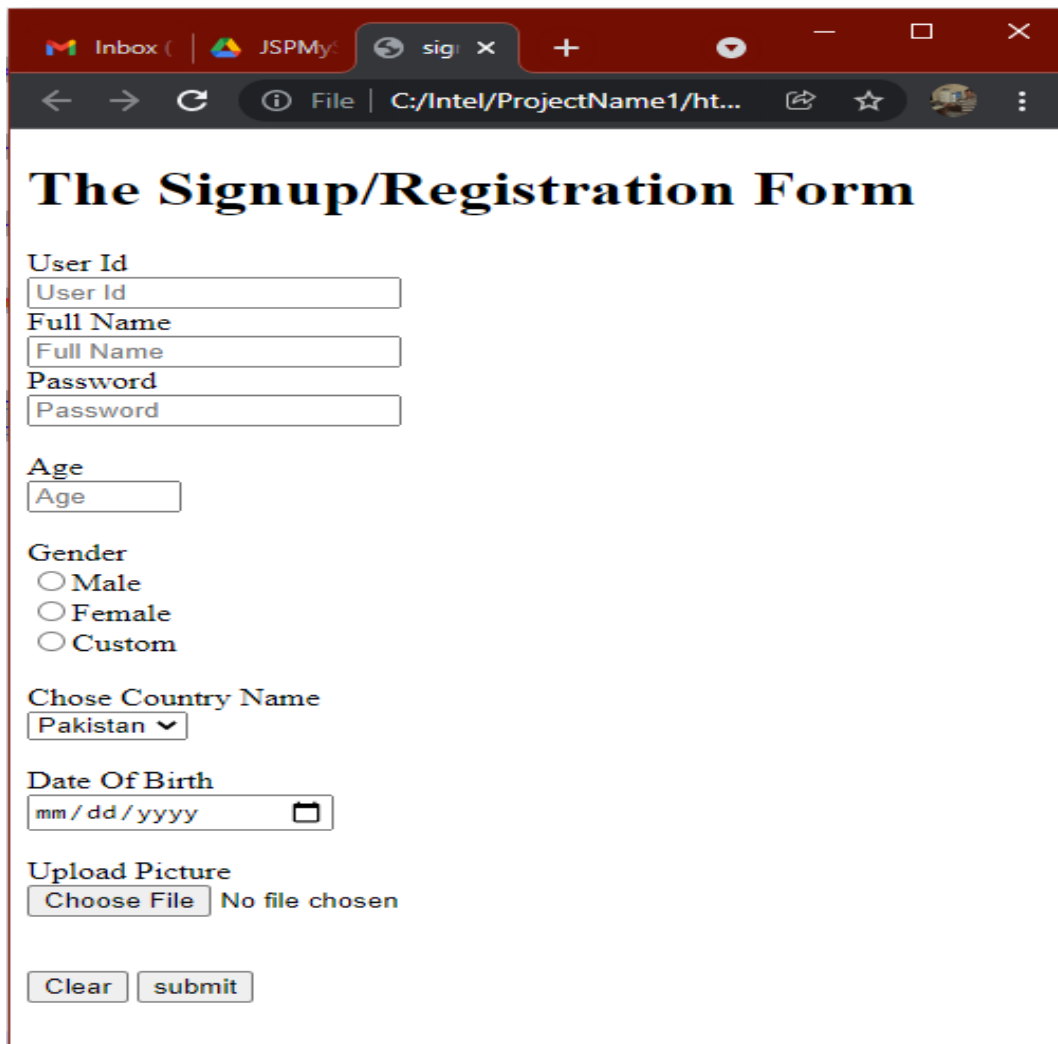
```
        <option value="India"> India </option>
        <option value="USA" width="160"> USA </option>
  </select>          <br><br>
  <label for="dob">Date Of Birth </label><br>
  <input type="date" name="dateofbirth"> <br><br>
  <label for="upload">Upload Picture </label><br>
  <input type="file" name="filename"> <br>      <br>      <br>
  <button type="reset"> Clear </button>
  <button type="submit"> submit </button>


  </body>
  </html>
```

Exercise

Theory Question

1) What do you mean by user input data?
2) Describe four input type attribute values.
3) Write form tag syntax with describe their attributes?

Practical Question

1) Write feedback form using by HTML program with display browser output.

Objective and MCQ

1) File select boxes are used to allow the user to select a local file and send it as an attachment to the web server).
   a) `<input type= "number">`
   b) `<input type= "text">`
   c) `<input type= "file">`
   d) `<input type= "password">`

2) Radio Buttons are used to let the user select exactly one option from a list of predefined options.
   a) `<input type= "radio">`
   b) `<input type= "checkbox">`
   c) `<input type= "text">`
   d) `<input type= "option">`

3) It defines a multi-line input control.
   a) `<input>`
   b) `<select>`
   c) `<textarea>`
   d) `<button>`

4) The _____attribute specifies how the form-data should be encoded when submitting it to the server.
   a) enctype
   b) type
   c) for
   d) value

5) Displays a single line only email format input field. It validates the text for correct email address. You must use @ and . in this field.
   a) `<input type= "radio">`
   b) `<input type= "checkbox">`
   c) `<input type= "text">`
   d) `<input type= "email">`