## HTML FORMS

- HTML forms are used to collect user input.
- The <form> element defines an HTML form:
- HTML forms contain form elements.
- Form elements are different types of input elements, checkboxes, radio buttons, submit buttons, and more.

#### FORM ELEMENTS

#### 1. action

 Specifies the URL where the form data will be sent when the form is submitted.

Example: <form action="submit.php">

#### 2. method

- Specifies the HTTP method (GET or POST) that the browser uses to submit the form data.
- GET sends data in the URL, suitable for non-sensitive data.
- POST sends data in the body of the request, suitable for sensitive data.

Example: <form method="POST">

#### 3. target

- Specifies where to display the response after submitting the form.
- Values:
- \_blank Opens the response in a new tab.
- \_self Displays the response in the same frame (default).
- \_parent Displays the response in the parent frame.
- \_top Displays the response in the full body of the window.

Example: <form target="\_blank">

#### 4. name

- Defines a name for the form, useful when referencing the form in scripts or when submitting data to a server.
- Example: <form name="myForm">

#### 5. enctype

- Specifies how the form data should be encoded when sending it to the server.
- Common values:
- application/x-www-form-urlencoded Default value.
- multipart/form-data Used when uploading files.
- text/plain Sends form data as plain text.
- Example: <form enctype="multipart/form-data">

#### 6. autocomplete

- Specifies whether the browser should automatically complete form fields based on previous input.
- Values:
- on Allows autofill (default).
- off Disables autofill.
- Example: <form autocomplete="off">

### THE <INPUT> ELEMENT

- The <input> element is the most important form element.
- The <input> element has many variations, depending on the type attribute.

Type	Description
text	Defines normal text input
radio	Defines radio button input (for selecting one of many choices)
submit	Defines a submit button (for submitting the form)

#### INPUT ELEMENTS

- 1. type
- · Specifies the type of input (text, password, radio, checkbox, email, etc.).
- Example: <input type="text">
- 2. name
- Specifies the name of the input field, which is used to identify the field when sending data to the server.
- Example: <input type="text" name="username">
- 3. value
- Specifies the default value of the input field or the value to be sent to the server when the form is submitted.
- Example: <input type="text" value="John Doe">

- 4. placeholder
- Provides a short hint or description of the input field's purpose, displayed inside the field when it is empty.
- Example: <input type="text" placeholder="Enter your name">
- 5. required
- Indicates that the input field must be filled out before submitting the form.
- Example: <input type="text" required>
- 6. readonly
- Specifies that the input field is read-only and cannot be modified by the user.
- Example: <input type="text" value="Read only" readonly>

- 7. disabled
- Specifies that the input field is disabled and cannot be interacted with.
- Example: <input type="text" disabled>
- 8. maxlength
- Specifies the maximum number of characters allowed in the input field.
- Example: <input type="text" maxlength="10">
- 9. min and max
- Specifies the minimum and maximum values for numeric inputs or date fields.
- Example (for numeric input): <input type="number" min="1" max="100">

- 10. size
- Specifies the visible width of the input field (in characters).
- Example: <input type="text" size="30">
- 11. checked
- Specifies that the checkbox or radio button is pre-selected.
- Example: <input type="checkbox" checked>

#### **TEXT INPUT**

- <input type="text"> defines a one-line input field for text input: or is used to create a single-line text field.
- example

```
<form>
First name:<br>
<input type="text" name="firstname"><br>
Last name:<br>
<input type="text" name="lastname"></form>
```

## **EXAMPLE 1**

- <br >br> to insert line break

First name:	
Last name:	

## **EXAMPLE 2**

```
1  <!DOCTYPE html>
2  <html>
3  <body>
4
5  <form>
6   | First name: <input type="text" name="firstname">
7   | <br>
8   | Last name: <input type="text" name="lastname">
9  </form>
10
11
12  </body>
13
14  </html>
15
```

First name:	
Last name:	

#### RADIO BUTTON INPUT

- <input type="radio"> defines a radio button.
- Radio button is an input element that allows users to select only one option from a group of choices.
- example

- MaleFemale
- Other

#### THE SUBMIT BUTTON

- <input type="submit"> defines a button for submitting a form to a form-handler.
- The form-handler is typically a server page with a script for processing input data.
- The form-handler is specified in the form's action attribute:

#### **EXAMPLE:**

 When the submit button is clicked the form data will be sent to the link on the (form action="link) action link

First name:	
Enter your firstname	
Last name:	
Enter your lastname	
Submit	

# A CHECKBOX IS AN INPUT ELEMENT THAT ALLOWS USERS TO SELECT ONE OR MORE OPTIONS FROM A SET OF CHOICES

 This is a radio button with the male checked to true on left while on right is the checkbox selected to true



Checkbox

Subscribe to newsletter:

# EXAMPLE: CHECKBOX AND RADIO BUTTON

```
<!DOCTYPE html>
       <title>Form with Checkbox and Radio Button</title>
       <h2>Form with Checkbox and Radio Buttons</h2>
       <form action="/submit" method="POST">
         <label for="subscribe">Subscribe to newsletter:</label>
         <input type="checkbox" id="subscribe" name="subscribe" value="yes" checked>
         <br><br><br>>
         <!-- Radio buttons -->
         Choose your gender:
         <input type="radio" id="male" name="gender" value="male">
         <label for="male">Male</label><br>
         <input type="radio" id="female" name="gender" value="female">
         <label for="female">Female</label><br>
22
         <br><br><br>>
         <input type="submit" value="Submit">
       </form>
     </body>
```

Form with Checkbox and Radio Buttons			
Subscribe to newsletter: ✓			
Choose your gender:			
Male Female			
Submit			

## DROPDOWN (SELECT)

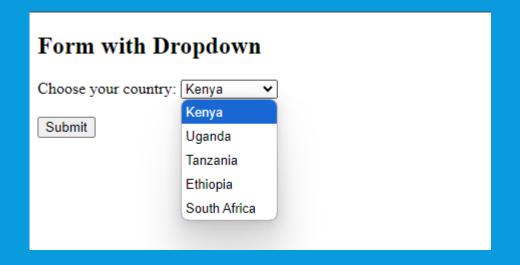
• A dropdown is a user interface (UI) element that displays a list of options when clicked or selected, typically in the form of a menu.

<select> element is used to create a dropdown menu that allows users to choose from a list of options.



### **EXAMPLE OF DROPDOWN WITH OUTPUT**

```
<!DOCTYPE html>
 <title>Form with Dropdown</title>
 <h2>Form with Dropdown</h2>
  <form action="/submit" method="POST">
   <!-- Dropdown (select) for choosing a country -->
   <label for="country">Choose your country:</label>
    <select id="country" name="country">
     <option value="kenya">Kenya</option>
     <option value="uganda">Uganda</option>
     <option value="tanzania">Tanzania</option>
     <option value="ethiopia">Ethiopia</option>
     <option value="southAfrica">South Africa</option>
    <br><br><br><
   <input type="submit" value="Submit">
  </form>
```



## TEXTAREA (MESSAGE BOX)

Textarea allows users to enter multiple lines of text

#### Attributes of textarea

.The rows attribute specifies the number of visible text lines.

- The cols attribute specifies the visible width of the textarea.
- The placeholder attribute gives a hint to the user about what should be entered.
- The name Specifies the name of the <textarea> element
- Required Ensures that the <textarea> is filled out before the form can be submitted.
- disabled Disables the <textarea> so it cannot be edited or submitted.



### **EXAMPLE OF TEXTAREA**

```
<!DOCTYPE html>
      <title>Form with Message Box</title>
       <h2>Feedback Form</h2>
       <form action="/submit" method="POST">
         <!-- Textarea for message -->
         <label for="message">Your Message:</label><br>
13
         <textarea id="message" name="message" rows="4" cols="50" placeholder="Enter your feedback here..."> </textarea><br><br>
         <input type="submit" value="Submit">
       </form>
     </body>
```

## **TEXTAREA OUTPUT**

Feedback Form	
Your Message:	
Submit	

#### <FIELDSET>

- The <fieldset> element is used in HTML forms to group related form controls (like inputs, checkboxes, etc.) together.
- It creates a visual grouping by adding a border around the elements inside it, which helps organize the form and make it more user-friendly.
   example

```
<fieldset>
<label for="name">Name:</label>
<input type="text" id="name" name="name">
<label for="email">Email:</label>
<input type="email" id="email" name="email">
</fieldset>
```

#### <LEGEND>

The <legend> element is used as a caption for the <fieldset>.

· It provides a title for the grouped elements, describing the purpose of the section.

```
Example

<fieldset>
<legend>Personal Information</legend>
<label for="firstname">First Name:</label>
<input type="text" id="firstname" name="firstname">
<label for="lastname">Last Name:</label>
<input type="text" id="lastname" name="lastname">
</fieldset>
```

# FIELDSET AND LEGEND EXAMPLE IBP 2021 NOVEMBER Q6C

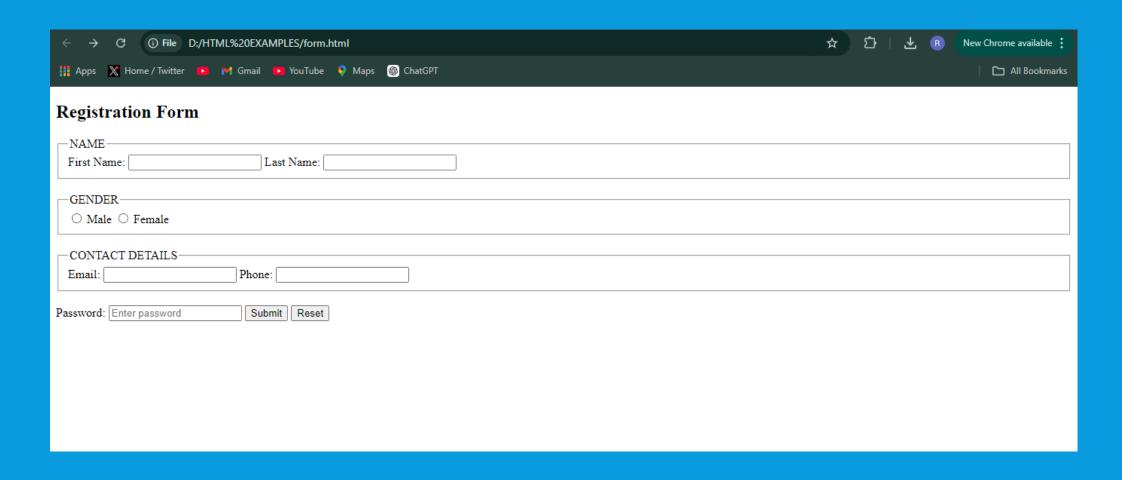
	(c)	Write a HTML code that would display the following form as it appears the code is run on a browser.	pears in Figure 4 (9 marks)
		First Name: Last Name: Omale O Female	
		Contact Details  Email Address: Phone Number;  Password Enter Password Submit Recet	
		Figure 4	
7.	(a)	Distinguish between <em> and <i> as used in HTML.</i></em>	(4 marks)

# ANSWER TO IBP NOV 6C FIELDSET AND LEGEND

```
<!DOCTYPE html>
       <title>Form with Borders</title>
       <h2>Registration Form</h2>
        <!-- Name Section -->
          <legend>NAME</legend>
          <label for="firstname">First Name:</label>
          <input type="text" id="firstname" name="firstname">
13
          <label for="lastname">Last Name:</label>
          <input type="text" id="lastname" name="lastname">
          <legend>GENDER</legend>
            <input type="radio" name="gender" value="male"> Male
            <input type="radio" name="gender" value="female"> Female
```

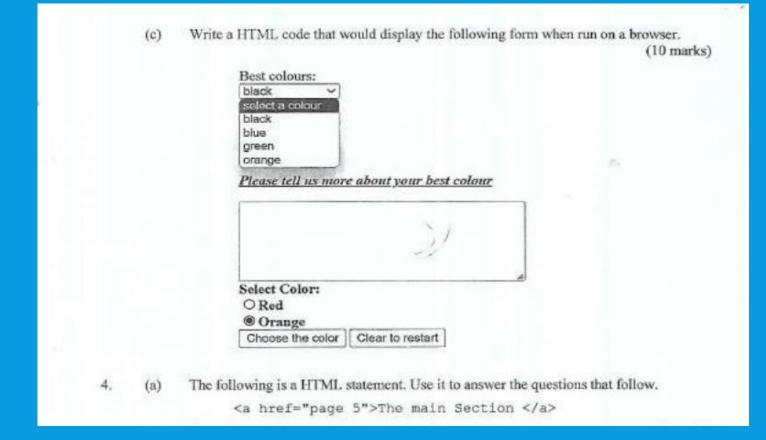
```
<br>
   <fieldset>
     <legend>CONTACT DETAILS</legend>
     <label for="email">Email:</label>
     <input type="email" id="email" name="email">
     <label for="phone">Phone:</label>
     <input type="tel" id="phone" name="phone">
    </fieldset>
    <br>
   <!-- Password and Buttons -->
   <label for="password">Password:</label>
   <input type="password" id="password" name="password" placeholder="Enter password">
   <button type="submit">Submit</button>
   <button type="reset">Reset</button>
  </form>
</body>
```

### **OUTPUT TO FIELDSET AND LEGEND**



# QUESTION 1: FROM KNEC PASTPAPER IBP2022 NOVEMBER Q3C

 Write html code to display as in the image (the choose the color and clear to restart are buttons) <input type="submit" value="choose the color">



## QUESTION 2: IBP JULY 2022

#### Do question 5 b

5. (a)	Outline four advantages of having internal links in a web page.	(4 marks)
(b)	Explain the function of each of the following statements as used in HTMI	L forms.
	(i) <input type="text"/>	(2 marks)
	(ii) <textarea>&lt;/td&gt;&lt;td&gt;(2 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(iii) &lt;select&gt;&lt;/td&gt;&lt;td&gt;(2 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(c)&lt;/td&gt;&lt;td&gt;Distinguish between responsive web design and adaptive web design.&lt;/td&gt;&lt;td&gt;(4 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(d)&lt;/td&gt;&lt;td&gt;Explain three reasons for using of JavaScript as a client-side programmir&lt;/td&gt;&lt;td&gt;ng language.&lt;br&gt;(6 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;2920/304&lt;/td&gt;&lt;td&gt;3&lt;/td&gt;&lt;td&gt;Turn over&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>	

### **NOTE: SINGLE AND MULTIPLE LINE TEXT**

Single Line Text: The <input> element with the type="text" attribute is used to create a single-line text field. E.g <input type="text"</li>

 Multiple Line Text: The <textarea> element is used to create a multi-line text field, allowing users to enter longer blocks of text.

# QUESTION: DO QUESTION 6C AND 7A AND 7B FROM IBP JULY 2022

	6.	(a)	Explain the function of each of the following features in a web	authoring tool:
			(i) hyperlink;	(2 marks)
			(ii) frameset;	(2 marks)
			(iii) layer.	(2 marks)
		(b)	In order to ensure the confidentiality, integrity, and availability website, organizations are opting to use various information see Describe three such security control methods.	of information in a curity control methods. (6 marks)
		(c)	Write a HTML code that would display the following form who	en run on a web browser. (8 marks)
			USERNAME:	
			EMAIL ID:	
			SELECT GENDER  Male Female	
			SHLECT SUBJECTS  Maths Science Description:	
			1	
			Submit	
*	7.	(a)	Outline <b>four</b> types of <i>HTTP method attributes</i> used to send dat form.	ta when submitting a (4 marks)
		(b)	Explain the function of each of the following attributes used in	a form tag in HTML:
			(i) Target;	(2 marks)
			(ii) Name.	(2 marks)

## QUESTION: IBP 2019 JULY Q5A,5C

15.	(a)	Outline four attributes of a <textarea> as used in HTML.&lt;/th&gt;&lt;th&gt;(4 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(b)&lt;/td&gt;&lt;td&gt;Explain three reasons for performing security test on a web site that has bee developed.&lt;/td&gt;&lt;td&gt;en&lt;br&gt;(6 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;*&lt;/td&gt;&lt;td&gt;(c)&lt;/td&gt;&lt;td&gt;Write a HTML code that would display the following form when run on a be&lt;/td&gt;&lt;td&gt;rowser.&lt;br&gt;(10 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;First name&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Last name&lt;/td&gt;&lt;td&gt;4&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;349&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;COURSE&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;o ICT&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;• MEC&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;GAMES&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;□ Football □ Netball □&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Citation and district and distr&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Comment&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Submit Reset&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;6.&lt;/td&gt;&lt;td&gt;(a)&lt;/td&gt;&lt;td&gt;Outline four attributes of a &lt;meta&gt; as used in HTML.&lt;/td&gt;&lt;td&gt;(4 marks)&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>
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