DCS 3003

WEBSITE DESIGN



HTML - Form : <select>

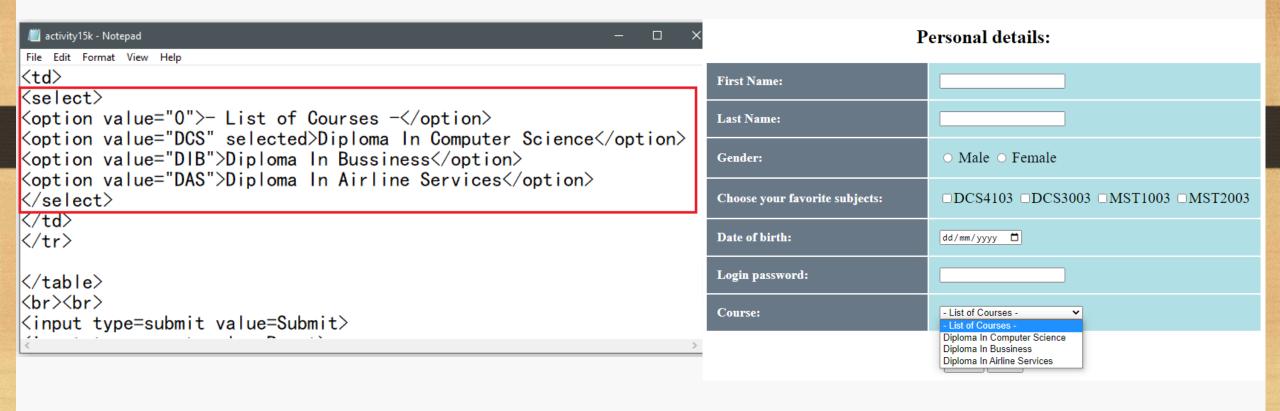
- 1) <select> tag is used to create drop down list of options.
- 2) <option> tag is put into the <select> tag.
- 3) The first option from the list of options is selected by default. To change a predefined option, the selected attribute is used.
- 4) The <optgroup> tag is used to group several options into one group.

HTML - Form: <select>

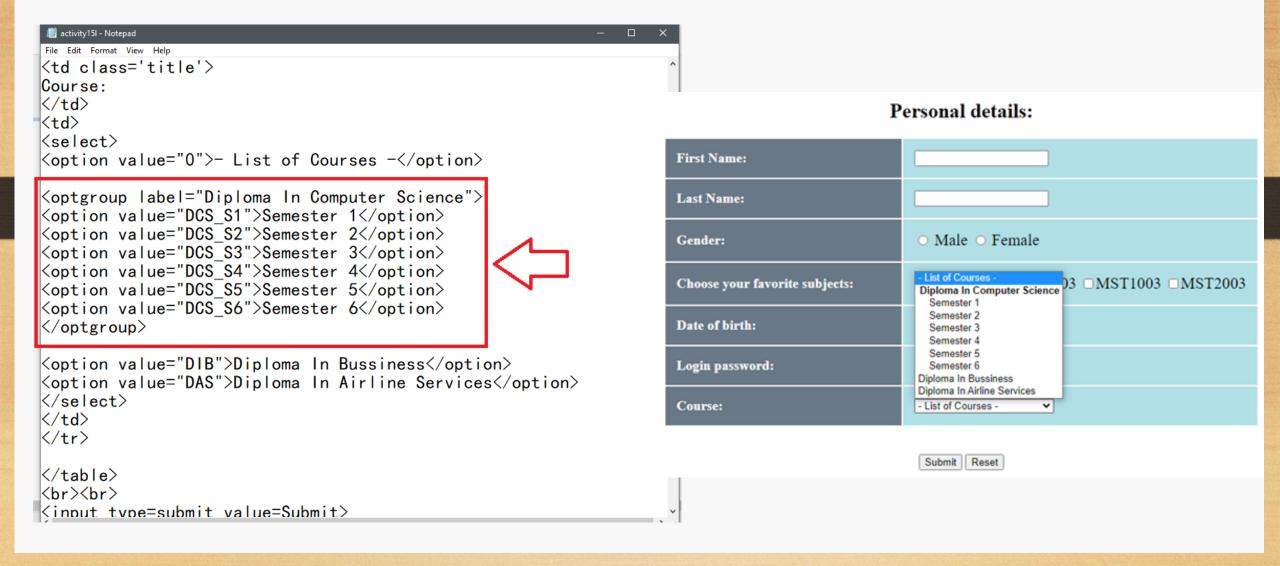
The <select>,<option> and <optgroup> tags are come in pairs, container tags.

- -> <select> & </select>
- -> <option> & </option>
- -> <optgroup> & </optgroup>

HTML – Form <select> - activity15k.html



HTML – Form <select> - activity151.html

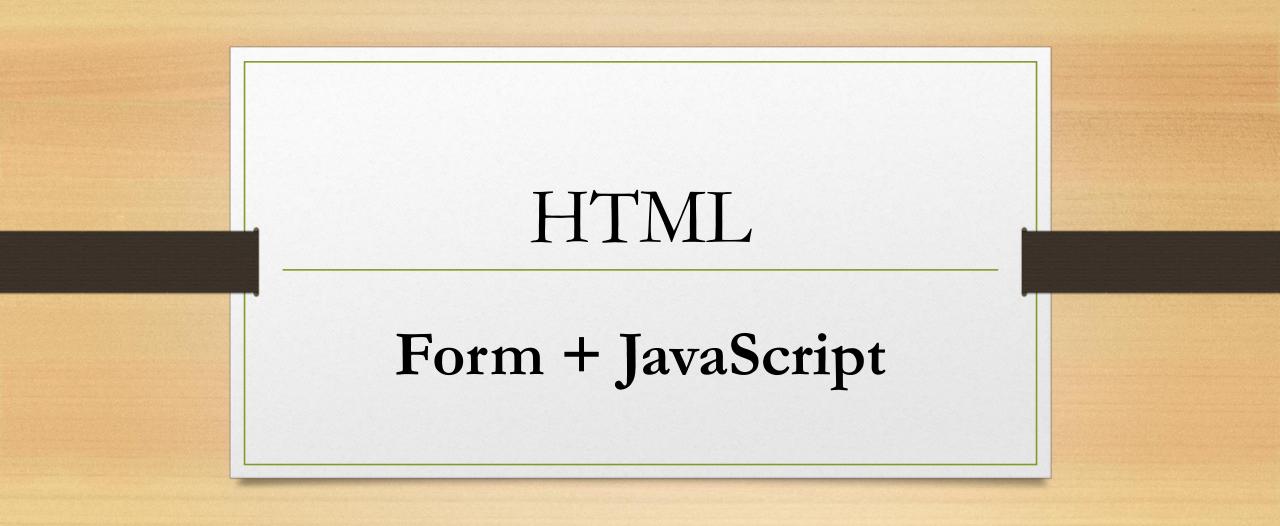


Attribute	Description
value	The value attribute is used to specify the value of the input element. Example: <input name="fname" type="text" value="Name"/>
size	This property is used to specifies the width, in characters, of an <input/> element. Example: <input name="fname" size="50" type="text" value="Name"/>
maxlength	This property is used to specifies the maximum number of characters allowed. Example: <input maxlength="10" name="fname" size="50" type="text" value="Name"/>
placeholder	Placeholder attribute is used to specify hint that describes the expected value of an input field. Example: <input name="lname" placeholder="Last name" type="text"/>

Attribute	Description
autofocus	Autofocus attribute specifies that an element should automatically get focus when the page loads. Example: <input autofocus="" name="lname" placeholder="Last name" type="text"/>
checked	The checked attribute specifies that an element should be pre-selected (checked) when the page loads. The checked attribute can be used with < input type=checkbox> and <input type="radio"/> . Example: <input checked="" name="fav_sub" type="checkbox" value="DCS4103"/> DCS4103
disabled	The disabled attribute specifies that the element should be disabled. The disabled attribute can be set to keep a user from using the < input > element until some other condition has been met. Example: <input disabled="" name="fav_sub" type="checkbox" value="DCS3003"/> DCS3003

Attribute	Description
min	This property is used to specifies a minimum value for an <input/> element. Example: <input min="2000-01-01" name="dob" type="date"/>
max	The max attribute is used to specify the maximum value for an < input > element. Example: <input max="2005-12-31" min="2000-01-01" name="dob" type="date"/>
readonly	The readonly attribute specifies that an input field is read-only. A read-only input field cannot be modified. A form will still submit an input field that is readonly, but will not submit an input field that is disabled. Example: <input name="loginpass" readonly="" type="password"/>

Attribute	Description
src	This property is used to specifies the URL of the image to use as a submit button (only for type=image). Example: <input src="pic.jpg" type="image"/>
alt	The alt attribute is used to provide alternate text for the user, if they cannot view the image. Example: <input alt="AnImage" src="pic.jpg" type="image"/>
height	This property is used to specifies the height of an <input/> element (only for type=image). Example: <input alt="AnImage" height="48" src="pic.jpg" type="image"/>
width	This property is used to specifies the width of an <input/> element (only for type=image) Example: <input alt="AnImage" height="48" src="pic.jpg" type="image" width="48"/>



- 1) To ensure all required form controls are filled out.
- 2) To ensure all data submitted in the correct format and matches the requirements.
- 3) This is called client-side form validation.

- 4) JavaScript provides a way to validate form's data on the client's computer before sending it to the web server.
- 5) Form validation generally performs two functions:
 - Basic Validation
 - Data Format Validation

- 6) Basic Validation make sure all the mandatory fields are filled in.
- -> It would require just a loop through each field in the form and check for data.

- 7) Data Format Validation the data that is submitted must be checked for correct form and value.
 - -> Must include appropriate logic to test correctness of data.

- 9) It is important to validate the form submitted by the user because it can have inappropriate values.
 - -> validation is must to authenticate user.
- 10) JavaScript is used to validate the form on the client-side
 - -> data processing will be faster than server-side validation.

Example:

- "This field is required" (You can't leave this field blank).
- "Please enter a valid email address" (the data you entered is not in the right format).
- "Your password needs to be between 8 and 30 characters long and contain one uppercase letter, one symbol, and a number." (A very specific data format is required for your data).

Form Validation

activity15k.html

-> activity15n.html

Personal details:

First Name:	
Last Name:	
Gender:	○ Male ○ Female
Choose your favorite subjects:	□DCS4103 □DCS3003 □MST1003 □MST2003
Date of birth:	dd/mm/yyyy 🗖
Login password:	
Course:	Diploma In Computer Science ✔
	Submit Reset

Form Validation

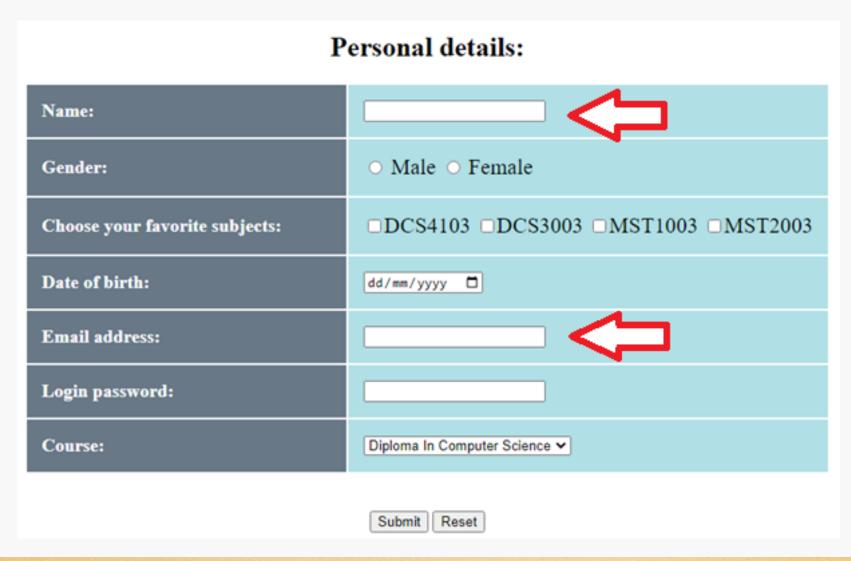
activity15n.html

```
activity15n - Notepad
File Edit Format View Help
<html><head><title>Form - Text Input</title>
<link href="activity15.css" rel="stylesheet">
</head>
<body topmargin=50>
<center>
<form>
<br>
Ktable>
<caption>Personal details:</caption>
Name:
\langle \mathsf{td} \rangle
<input type=text name=username>
Ktr>
Ktd class='title'>
Gender:
\langle \text{/td} \rangle
\langle \mathsf{td} \rangle
Kinput type = radio name = gender value = Male> Male
```

Form Validation

activity15n.html

```
activity15n - Notepad
File Edit Format View Help
\langle \mathsf{td} \rangle
<input type=date name=dob>
Email address:
\langle \mathsf{td} \rangle
<input type=email name=useremail>
>
Login password:
\langle \mathsf{td} \rangle
<input type=password name=loginpass>
\langle tr \rangle
Course:
```



1st

- validate the name.
- -> The name can't be empty.

Personal details:

Name:	
Gender:	○ Male ○ Female
Choose your favorite subjects:	□DCS4103 □DCS3003 □MST1003 □MST2003
Date of birth:	dd/mm/yyyy 🗖
Email address:	
Login password:	
Course:	Diploma In Computer Science ✔
	Submit Reset

DCS 3003 Website Design

HTML -

Form Validation

activity15n.html

1st

- validate the name.
- -> The name

can't be empty.

```
activity15n - Notepad
                                                            File Edit Format View Help
<html><head><title>Form - Text Input</title>
Klink href="activity15.css" rel="stylesheet">
Kscript>
function validateForm() {
  // to validate text - do not allow empty
  let x = document. MyFirstForm. username. value;
  if (x == "")
    alert("Please provide your Name!");
    return false;
</script>
</head>
⟨body topmargin=50⟩
<center>
<form name=MyFirstForm onsubmit="return validateForm()" >
<br>
Ktable>
Kcaption>Personal details:</caption>
```

1st

- validate the name.
- -> The name

can't be empty.



- Let's the Name text box

empty -> Click Submit

Personal details:

Name:	
Gender:	○ Male ○ Female
Choose your favorite subjects:	□DCS4103 □DCS3003 □MST1003 □MST2003
Date of birth:	dd/mm/yyyy 🗖
Email address:	
Login password:	
Course:	Diploma In Computer Science ✔
	Submit Reset

1st

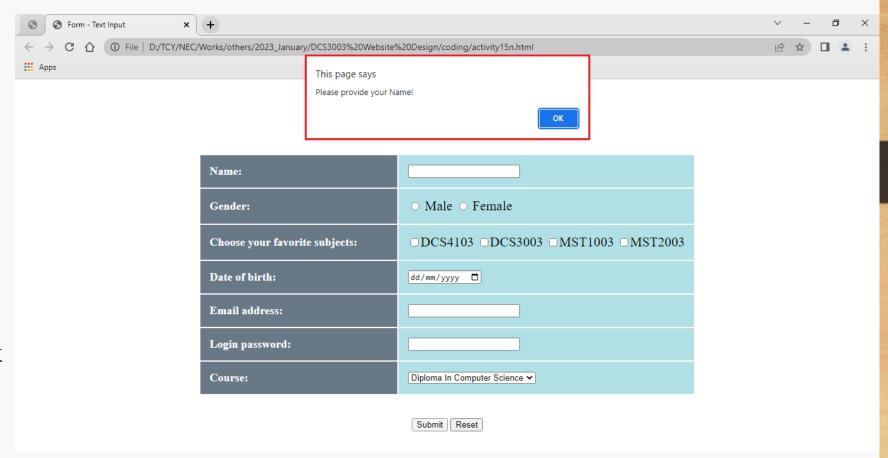
- validate the name.
- -> The name

can't be empty.



- Let's the Name text box

empty -> Click Submit



2nd

- validate the name.
- -> The input data must be characters.

Personal details:

Name:	
Gender:	○ Male ○ Female
Choose your favorite subjects:	□DCS4103 □DCS3003 □MST1003 □MST2003
Date of birth:	dd/mm/yyyy 🗖
Email address:	
Login password:	
Course:	Diploma In Computer Science ✔
	Submit Reset

Form Validation

activity15n.html

2nd

- validate the name.
- -> The input data

must be characters.

```
activity15n - Notepad
File Edit Format View Help
<html><head><title>Form - Text Input</title>
<!ink href="activity15.css" rel="stylesheet">
Kscript>
function validateForm() {
  // to validate text - do not allow empty
  let x = document. MyFirstForm. username. value;
  if (x == "") {
    alert("Please provide your Name!");
    return false:
  // to validate text - only allow alphabet characters
  var letters = /^[A-Za-z]/;
if (!x.match(letters))
    alert("Please input alphabet characters.");
    return false;
</script>
</head>
<body topmargin=50>
Kcenter>
<form name=MyFirstForm onsubmit="return validateForm()" >
```

2nd

- validate the name.
- The input data must be characters.



- Let's input number
- -> Click Submit

Personal details:

Name:	
Gender:	○ Male ○ Female
Choose your favorite subjects:	□DCS4103 □DCS3003 □MST1003 □MST2003
Date of birth:	dd/mm/yyyy 🗂
Email address:	
Login password:	
Course:	Diploma In Computer Science ✓
	Submit Reset

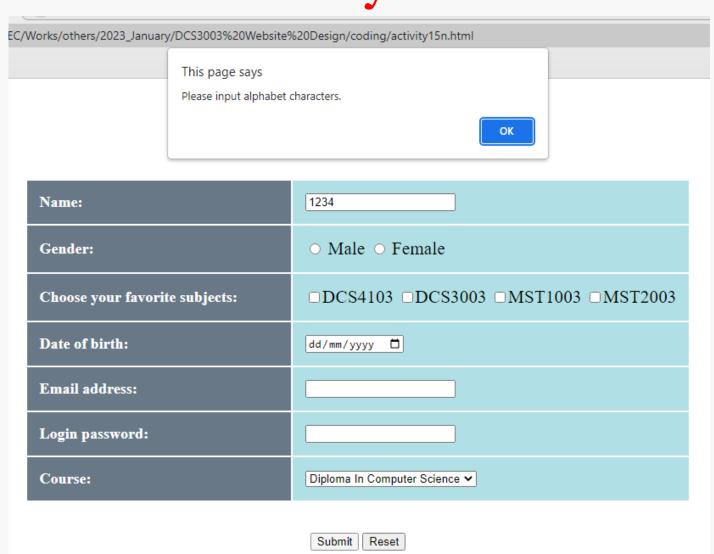
2nd

- validate the name.
- The input data

must be characters.



- Let's input number
- -> Click Submit



3rd

- validate the name.
- -> The input data must be number.

Personal details:

Name:	
Gender:	○ Male ○ Female
Choose your favorite subjects:	□DCS4103 □DCS3003 □MST1003 □MST2003
Date of birth:	dd/mm/yyyy 🗂
Email address:	
Login password:	
Course:	Diploma In Computer Science ✔
	Submit Reset

Form Validation

-> first method

activity15n.html

3rd

- validate the name.
- -> The input data must be number.

```
*activity15n - Notepad
File Edit Format View Help
K/script>
</head>
<body topmargin=50>
Kcenter>
Kform name=MyFirstForm onsubmit="return validateForm()" >
Kbr>
Kcaption>Personal details:</caption>
Ktr>
Name:
\langle \text{/td} \rangle
\langle td \rangle
Kinput type=<mark>number</mark> name=username>
Gender:
\langle td \rangle
Kinput type = radio name = gender value = Male> Male
<input type = radio name = gender value = Female> Female
\langle \text{/td} \rangle
```

3rd

- validate the name.
- -> The input data must be number.



HTML -

Form Validation

-> second method

activity15n.html

3rd

- validate the name.
- -> The input data must be number.

```
activity15n - Notepad
File Edit Format View Help
function validateForm() {
  let x = document. MyFirstForm. username. value;
  if (x == "")
    alert("Please provide your Name!");
    return false;
  var letters = /^[0-9]/;
  if (!x.match(letters))
    alert("Please input number.");
    return false;
</script></head>
Kbody topmargin=50>
Kcenter>
<form name=MyFirstForm onsubmit="return validateForm()" >
<br/>table>
<caption>Personal details:</caption>
Ktr>
\langle td \rangle
<input type=text name=username>
\langle td \rangle
```

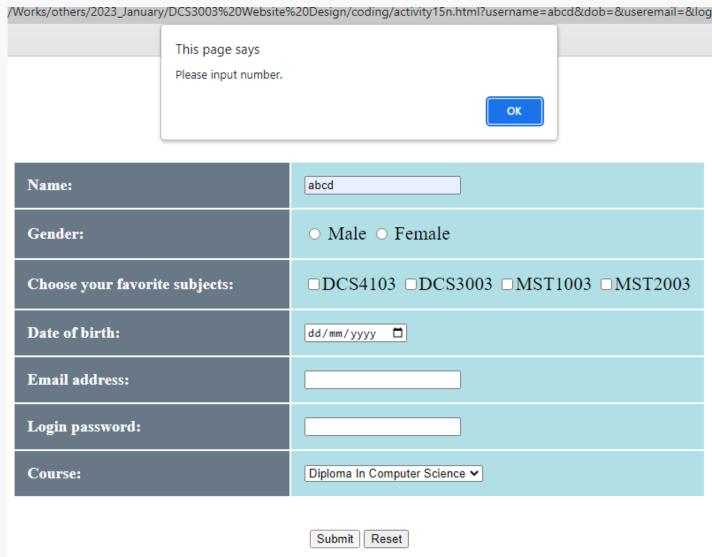
3rd

- validate the name.
- The input data

must be number.



- Let's input characters
- -> Click Submit



```
/^[A-Za-z]/
/^[0-9]/
/^[A-Za-z0-9]/
```

Where:

^ represents the starting of the string

[A-Za-z] represents the alphabets from a-z, A-Z

[0-9] represents any number from 0-9

[A-Za-z0-9] represents whether everything is either alphabetical or digit

4th

- validate the gender.
- -> Must do selection.



```
activity15n - Notepad
File Edit Format View Help
    alert("Please provide your Name!");
    return false;
  var letters = /^[A-Za-z]+$/;
  if (!x.match(letters))
    alert('Please input alphabet characters.');
    return false:
  if ( ( MyFirstForm.gender[0].checked == false ) && ( MyFirstForm.gender[1].checked == false )
  alert ("Please choose Gender: Male or Female");
  return false:
</script>
</head>
<body topmargin=50>
<center>
<form name=MyFirstForm onsubmit="return validateForm()" >
<br
```

4th

- validate the gender.
- Must do selection.



- Do not select gender
- -> Click Submit

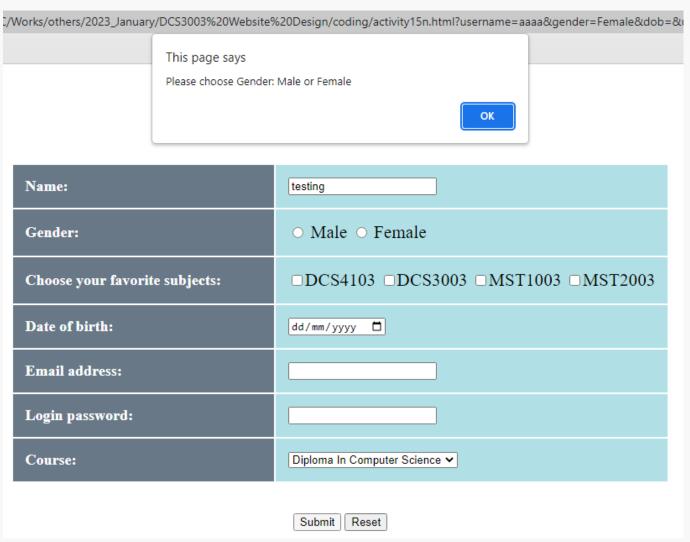


4th

- validate the gender.
- Must do selection.



- Do not select gender
- -> Click Submit

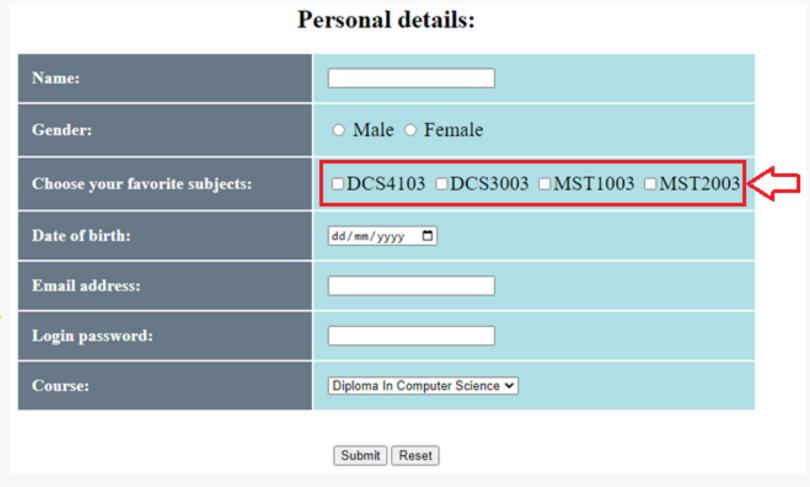


5th

- validate the

favorite subjects

-> Must do selection.



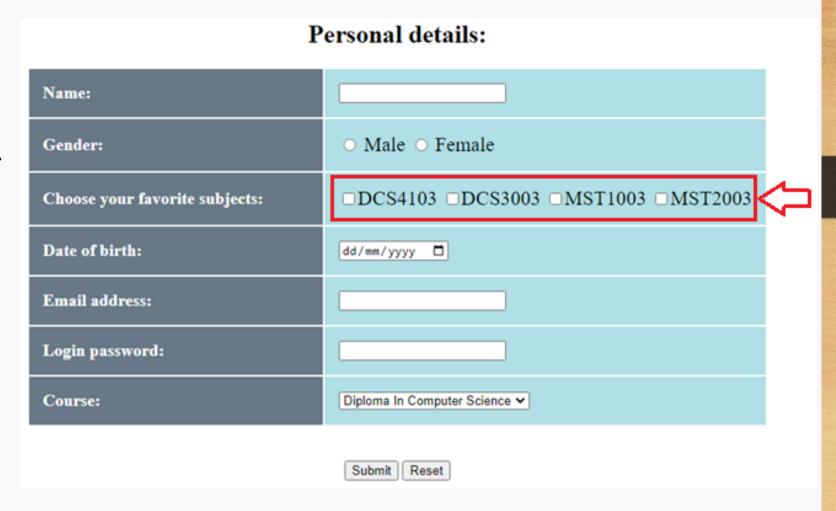
```
activity15n - Notepad
File Edit Format View Help
  if ((MyFirstForm.gender[0].checked == false) && (MyFirstForm.gender[1].checked == false))
  alert ("Please choose Gender: Male or Female");
  return false;
  var group = document. MyFirstForm. fav_sub;
  for (var i=0; i < group. length; i++)
  if (group[i].checked)
  break:
  if (i==group. length)
  alert("No Checkbox is checked");
  return false;
</script>
</head>
<body topmargin=50>
<center>
<form name=MyFirstForm onsubmit="return validateForm()" >
<br>
```

5th

- validate the favorite subjects.
- Must do selection.



- Do not select subjects
- -> Click Submit



5th

- validate the favorite subjects.
- Must do selection.



- Do not select subjects
- -> Click Submit

