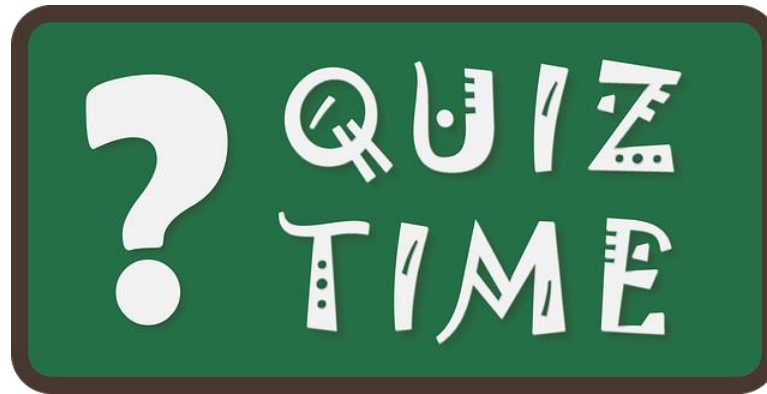
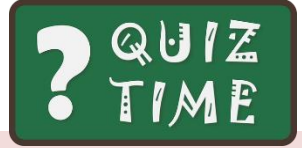


# module 12:

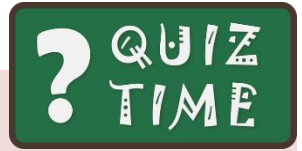
## “Working with FORMS”





1. Based on the RegExp below,  
Boba\_Fett@star-wars.com  
would be a valid entry.  
true or false

```
^([a-zA-Z0-9._%-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6})*$
```



1. Based on the RegExp below,  
Boba\_Fett@star-wars.com  
would be a valid entry.  
true or false

```
^([a-zA-Z0-9._%~]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6})*$
```

Answer

**true**



**?** (0 or 1 times)    **\*** - (0 or more)    **+** (1 or more)

2. Which form tag would be best for getting someone's country?

**(A)** `<select>`

**(B)** `<input type="radio">`

**(C)** `<input type="checkbox">`

**(D)** `<textarea>`

## 2. Which form tag would be best for getting someone's country?

Answer



**(A)** `<select>`

Country

- Aruba
- Aruba
- Afghanistan
- Angola
- Anguilla
- Åland Islands
- Albania
- Andorra
- United Arab Emirates
- Argentina
- Armenia
- American Samoa
- Antarctica
- French Southern Territories
- Antigua and Barbuda
- Australia
- Austria
- Azerbaijan
- Burundi
- Belgium
- Benin

`<select>` - because we could prepopulate the select list with all of the countries (without taking up a lot of space on the page).

3. When should you use **GET** as the method for submitting your form? (choose all that apply)

**(A)** Sensitive data (like passwords)

**(B)** Search results that people may want to bookmark

**(C)** Order form

**(D)** Large form with lots of data



3. When should you use **GET** as the method for submitting your form? (choose all that apply)

Answer

**(B)** Search results that people may want to bookmark



🔍 The witcher



google.ca/search?q=the+witcher

# GET vs. POST

---

## GET

## POST

Bookmarked

YES

NO

Data Length

2k or less

No restrictions

Security

Less secure  
(Data is part of URL and  
saved in Browser History)

Safer then GET

Visibility

Do NOT use GET when  
sending passwords or  
sensitive data.

Use POST when  
sending sensitive data  
Not displayed in URL

---



#### 4. Choose the correct option.

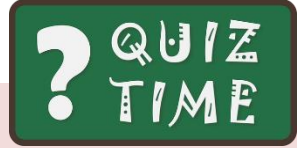
- (A)** HTML form elements are used for entering user input.
- (B)** HTML form elements are defined inside `<form>` tag.
- (C)** HTML form elements can be of different types.
- (D)** All of the above

4. Choose the correct option.

Answer

**(D)** All of the above





5. Which one of the following is a form element?

- (A)** text box
- (B)** radio button
- (C)** submit button
- (D)** All of the above

5. Which one of the following is a form element?

Answer

**(D)** All of the above



## 6. Which one of the following is incorrect?

- (A)** <label> tag in HTML is used for creating a tag for form elements.
- (B)** <label> can be used to increase the clickable area of buttons
- (C)** id attribute is used with <label> to increase the clickable area of form elements
- (D)** None of the above

Tough Question

## 6. Which one of the following is incorrect?

### Answer

**(c)** The **for** attribute is used with `<label>` for increasing the clickable area of form elements



```
<label for="street">Street address</label>  
<input name="custStreet" id="street" type="text" />
```

## 7. *Choose the incorrect option.*

- (A)** The **action** attribute is used inside the starting tag of form.
- (B)** With the use of action, we can redirect to a page once the submit button is clicked.
- (C)** `<form action:"register.php">` redirects to the page register.php
- (D)** None of the above

## 7. *Choose the incorrect option.*

Answer

**(C)** `<form action:“register.php”>` redirects to the page register.php



The correct way of using action attribute is  
`<form action=“register.php”>`



## 8. Which of the following are true?

- (A)** Use the method attribute to determine how the data in the form will be submitted.
- (B)** Method can be set to a value of POST or GET.
- (C)** The default method in HTML is GET.
- (D)** All of the above

8. Which of the following are true?

Answer

**(D)** All of the above



## 9. How can more than one option be selected in a drop-down list?

- (A)** Use of **multiple** attribute inside **<option>** tag.
- (B)** Use of **multiple** attribute inside **<select>** tag.
- (C)** Use of **multiple** attribute inside **<text>** tag.
- (D)** It is **not possible** to select more than one option in drop down.

## 9. How can more than one option be selected in a drop-down list?

### Answer

**(B)** Use of **multiple** attribute inside the **<select>** tag.



By the use of **multiple** attribute inside opening tag of **<select>**, more than one option can be selected in dropdown.

```
<select name="infoSrc" id="info" size="5" multiple>
<option value="internet">Internet</option>
<option value="mag">Magazine</option>
<option value="news">Newspaper</option>
<option value="word">Word of Mouth</option>
<option value="other">Other</option>
</select>
```

10. What attribute do you use to set the default value of a field to “Canada”?

- (A)** default=“Canada”
- (B)** textbox=“Canada”
- (C)** placeholder=“Canada”
- (D)** value=“Canada”

10. What attribute do you use to set the default value of a field to “Canada”?

Answer

**(D)** value=“Canada”



```
<label for="city">City</label>  
<input name="country" id="country"  
  type="text" value="Canada" />
```

# IMPORTANT NOTE:

## Changes to use FormProcessor.html

rb\_survey.html

Example of the author's code:

```
<form id="survey"  
  action="http://www.example.com/redball/survey"  
  method="post">      ...
```

**REPLACE** the author's code with:

```
<form id="survey" action="FormProcessor.html"  
  method="get">
```

# IMPORTANT NOTE:

## Changes to use FormProcessor.html

rb\_survey.html

**\* One more change!**

**DELETE** the `<script ...></script>` code  
from the `<head>` section.

```
<link href="rb_forms.css" rel="stylesheet" />  
<script src="rb_formsubmit.js"></script>  
</head>
```



---

module 11:  
“Working with FORMS”  
“CODING CHALLENGES”

---

**code7-1.html**

**Code Review**

code7-1.html

### Tutorial 7: Coding Challenge 7-1: “Enter User Account”

#### Enter User Account

Enter Account Information

Account Type

administrator  
member  
guest

Username

Password

Login

# Enter User Account

code7-1.html

**before**

## Enter User Account

**after**

## Enter User Account

Enter Account Information

Account Type

administrator  
member  
guest

Username

Password

Login

3. Within the body of the web page, insert a form element with the action attribute set to FormProcessor.html and the method to get.

```
<form action="FormProcessor.html" method="get">
```

```
</form>
```



4. Within the web form, create a field set with the id **login**. Within the field set insert a legend with the text **Enter Account Information**.

```
<form action="FormProcessor.html" method="get">
```

```
<fieldset id="login">
```

```
<legend>Enter Account Information</legend>
```

```
</fieldset>
```

```
</form>
```

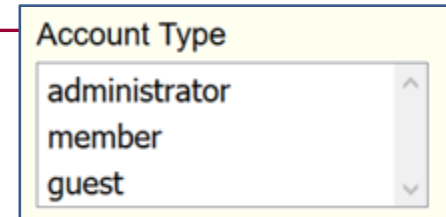
Enter User Account

Enter Account Information

Login

5. (a) ADD a selection list with an id = "acctype". Set size to "3".  
(b) ADD three options: administrator, member, guest and SET the value of the three options to type1, type2, type3 respectively.  
(c) LINK the label to the selection list

```
<form action="FormProcessor.html" method="get">
<fieldset id="login">
  <legend>Enter Account Information</legend>
  <label for="acctype">Account Type</label>
  <select id="acctype" name="accounttype" size="3">
    <option value="type1">administrator</option>
    <option value="type2">member</option>
    <option value="type3">guest</option>
  </select>
</fieldset>
</form>
```



6. (a) ADD a textbox with an id username and a field name of user.
7. (b) ADD a password input box with an id password and a field name pwd.

```
<form action="FormProcessor.html" method="get">
```

```
<fieldset id="login">
```

```
<legend>Enter Account Information</legend>
```

```
<label for="acctype">Account Type</label>
```

```
<select id="acctype" name="accounttype" size="3">
```

```
<option value="type1">administrator</option>
```

```
<option value="type2">member</option>
```

```
<option value="type3">guest</option>
```

```
</select>
```

```
<label for="username">Username</label>
```

```
<input type="text" id="username" name="user" />
```

```
<label for="password">Password</label>
```

```
<input type="password" id="password" name="pwd" />
```

```
</fieldset>
```

```
<input type="submit" value="Login" />
```

```
</form>
```





8. Below the field set, insert a submit button, displaying the text Login.

```
<form action="FormProcessor.html" method="get">
  <fieldset id="login">
    <legend>Enter Account Information</legend>
    <label for="acctype">Account Type</label>
    <select id="acctype" name="accounttype" size="3">
      <option value="type1">administrator</option>
      <option value="type2">member</option>
      <option value="type3">guest</option>
    </select>
    <label for="username">Username</label>
    <input type="text" id="username" name="user" />
    <label for="password">Password</label>
    <input type="password" id="password" name="pwd" />
  </fieldset>
  <input type="submit" value="Login" />
</form>
```

**Enter User Account**

Enter Account Information

Account Type

administrator  
member  
guest

Username

Password

Login

---

**code7-2.html**

**Code Review**

code7-2.html

### Tutorial 7: Coding Challenge 7-2: “Survey Questions”

#### Survey Questions

1. How satisfied were you with the conference workshops?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

2. How satisfied were you with the conference speakers?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

3. How satisfied were you with the conference facilities?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

4. How likely are you to attend next year's conference?

very unlikely  very likely

5. Provide any suggestions for the next conference:

enter your suggestions here

Submit!

### Ordered HTML List - The Type Attribute

Type	Description
<code>type="1"</code>	The <b>list</b> items will be numbered with numbers (default)
<code>type="A"</code>	The <b>list</b> items will be numbered with uppercase letters
<code>type="a"</code>	The <b>list</b> items will be numbered with lowercase letters
<code>type="I"</code>	The <b>list</b> items will be numbered with uppercase roman numbers

Example: `<ol type="a"> ...`

## before


### Survey Questions

1. How satisfied were you with the conference workshops?
  - a. Very Satisfied
  - b. Satisfied
  - c. Dissatisfied
  - d. Very Dissatisfied
2. How satisfied were you with the conference speakers?
  - a. Very Satisfied
  - b. Satisfied
  - c. Dissatisfied
  - d. Very Dissatisfied
3. How satisfied were you with the conference facilities?
  - a. Very Satisfied
  - b. Satisfied
  - c. Dissatisfied
  - d. Very Dissatisfied
4. How likely are you to attend next year's conference?
5. Provide any suggestions for the next conference:

## after

### Survey Questions

1. How satisfied were you with the conference workshops?
  - a. ☐ Very Satisfied
  - b. ☐ Satisfied
  - c. ☐ Dissatisfied
  - d. ☐ Very Dissatisfied
2. How satisfied were you with the conference speakers?
  - a. ☐ Very Satisfied
  - b. ☐ Satisfied
  - c. ☐ Dissatisfied
  - d. ☐ Very Dissatisfied
3. How satisfied were you with the conference facilities?
  - a. ☐ Very Satisfied
  - b. ☐ Satisfied
  - c. ☐ Dissatisfied
  - d. ☐ Very Dissatisfied
4. How likely are you to attend next year's conference?

very unlikely  very likely
5. Provide any suggestions for the next conference:

enter your suggestions here

Submit!

1. Within the body of the web page, insert a form element with the action attribute set to FormProcessor.html and the method to get.

```
<!doctype html>
<html lang="en">
<head>  <!-- Coding Challenge 2  -->
  <meta charset="utf-8">
  <title>Coding Challenge 7-2</title>
  <link href="code7-2_forms.css" rel="stylesheet" />
</head>
<body>
  <h1>Survey Questions</h1>
  <bform action="FormProcessor.html" method="get">

    <input type="submit" value="Submit!" />
  </bform>
</body>
</html>
```



2. The survey questions are marked as an ORDERED LIST.  
The first three questions include a nested list of options.  
Here is the code for the first question.

```
<form action="FormProcessor.html" method="get">
<ol type="1">
  <li>How satisfied were you with the conference workshops?
    <ol type="a">
      <li>
        <input type="radio" name="q1" value="a" id="q1a" />
        <label for="q1a">Very Satisfied</label> </li>
      <li>
        <input type="radio" name="q1" value="b" id="q1b" />
        <label for="q1b">Satisfied</label>
      </li>
      <li>
        <input type="radio" name="q1" value="c" id="q1c" />
        <label for="q1c">Dissatisfied</label>
      </li>
    </ol>
  </li>
</ol>
</li>
```



1. How satisfied were you with the conference workshops?
- a. ☐ Very Satisfied
  - b. ☐ Satisfied
  - c. ☐ Dissatisfied
  - d. ☐ Very Dissatisfied

3. The survey questions are marked as an ORDERED LIST.  
The second question included in the nested list of options.  
Here is the code for the second question.

...

`<li>`

How satisfied were you with the conference speakers?

`<ol type="a">`

`<li>`

`<input type="radio" name="q2" value="a" id="q2a" />`

`<label for="q2a">Very Satisfied</label> </li>`

`<li>`

`<input type="radio" name="q2" value="b" id="q2b" />`

`<label for="q2b">Satisfied</label> </li>`

`<li>`

`<input type="radio" name="q2" value="c" id="q2c" />`

`<label for="q2c">Dissatisfied</label> </li>`

`</ol>`

`</li>`



2. How satisfied were you with the conference speakers?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied



4. The survey questions are marked as an ORDERED LIST.  
The third question included in the nested list of options.  
Here is the code for the third question.

...

`<li>`How satisfied were you with the conference facilities?

`<ol type="a">`

`<li>`

`<input type="radio" name="q3" value="a" id="q3a" />`

`<label for="q3a">Very Satisfied</label>`

`</li>`

`<li>`

`<input type="radio" name="q3" value="b" id="q3b" />`

`<label for="q3b">Satisfied</label>`

`</li>`

`<li>`

`<input type="radio" name="q3" value="d" id="q3d" />`

`<label for="q3d">Very Dissatisfied</label>`

`</li>`

`</ol>`

`</li>`




3. How satisfied were you with the conference facilities?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

5. ADD a range slider that ranges from 1 – 10 in steps of 1, named q4.
6. Add a textarea control with placeholder text, named q5.

```
<li>How likely are you to attend next year's conference?
  <div id="newRow">
    very unlikely <input type="range" min="0" max="10"
      value="5" step="1" name="q4" /> very likely
  </div>
</li>

<li>
  <label for="q5text">Provide any suggestions for the next conference:</label>
  <textarea id="q5text" name="q5"
    placeholder="enter your suggestions here"></textarea>
</li>
</ol>
<input type="submit" value="Submit!" />
</form>
</body>
</html>
```



### SOLUTION

## Tutorial 7: Coding Challenge 7-2: “Survey Questions”

### Survey Questions

1. How satisfied were you with the conference workshops?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

2. How satisfied were you with the conference speakers?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

3. How satisfied were you with the conference facilities?

- a. ☐ Very Satisfied
- b. ☐ Satisfied
- c. ☐ Dissatisfied
- d. ☐ Very Dissatisfied

4. How likely are you to attend next year's conference?

very unlikely  very likely

5. Provide any suggestions for the next conference:

enter your suggestions here

Submit!

---

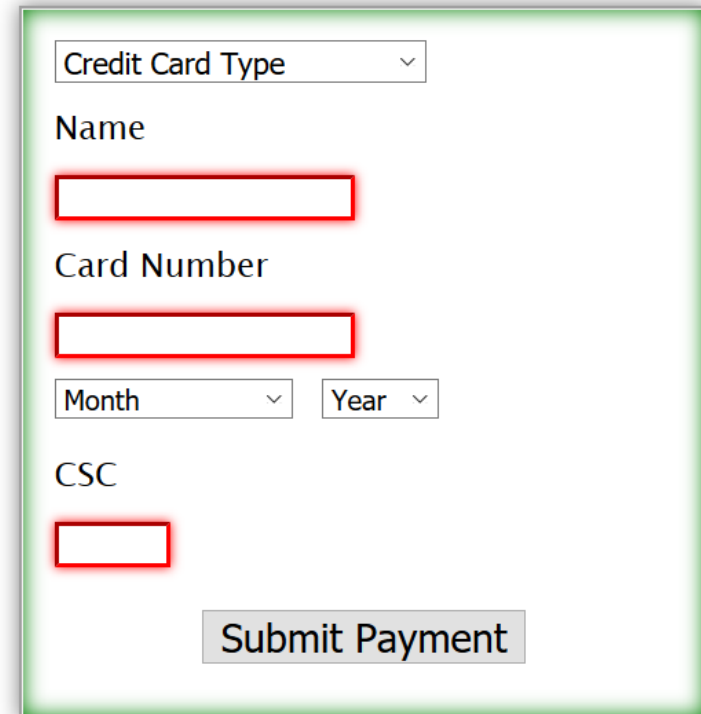
**code7-3.html**

**Code Review**

code7-3.html

### Tutorial 7: Coding Challenge 7-3: “Payment Information”

#### Payment Information



A screenshot of a web form titled "Payment Information". The form is enclosed in a green border. It contains the following fields: a dropdown menu for "Credit Card Type", a text input for "Name", a text input for "Card Number", two dropdown menus for "Month" and "Year", a text input for "CSC", and a "Submit Payment" button. The "Name", "Card Number", and "CSC" input fields are highlighted with red borders.

Credit Card Type ▾

Name

Card Number

Month ▾ Year ▾

CSC

Submit Payment

card security code (CSC)

## Payment Information

code7-3.html

**before**

### Payment Information

Name  Card Number   CSC

**after**

### Payment Information

Credit Card Type

Name

Card Number

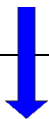
Month

Year

CSC

- 1 & 2. 1. Add the two .css files to the <head> section
2. Update the form element with the action attribute set to *FormProcessor.html* and the method to *get*.

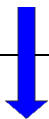
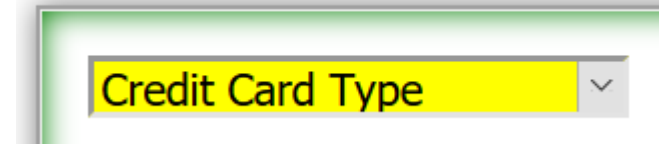
```
<meta charset="utf-8">
<title>Coding Challenge 7-3</title>
<link href="code7-3_forms.css" rel="stylesheet" />
<link href="code7-3_valid.css" rel="stylesheet" />
<body>
  <h1>Payment Information</h1>
  <form action="FormProcessor.html" method="get">
```



3. Within the creditcard selection list, add the options and values.
4. Make the cardname field **required**.

```
<fieldset>
<select id="ccard" name="creditcard" required>
  <option value="">Credit Card Type</option>
  <option value="amex">American Express</option>
  <option value="disc">Discover</option>
  <option value="master">MasterCard</option>
  <option value="visa">Visa</option>
</select>

<label for="cname">Name</label>
<input id="cname" name="cardname"
      type="text" required />
```





5. Make the cardnumber field **required** and  
Add the regular expression provided in the comment section.

```
<label for="cnum">Card Number</label>
<input type="text" name="cardnumber" id="cnum" required
       pattern=
       "(?:4[0-9]{12}(?:[0-9]{3})?|[25][1-7][0-9]{14}|
       6(?:011|5[0-9][0-9])[0-9]{12}|3[47][0-9]{13}|3(?
       :0[0-5]|[68][0-9])[0-9]{11}|(?:2131|1800|35\d{3}
       )\d{11})$" />
```

TEST!

VALID

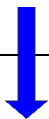
INVALID

Card Number

4222222222222555

Card Number

4222222222

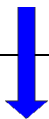


6. Within the cardmonth selection list, ADD options for each month from January (value 01) to December (value 12). Make the list 'required'.

```
<select name="cardmonth" id="month" required>
  <option value="">Month</option>
  <option value="01">January (01)</option>
  <option value="02">February (02)</option>
  <option value="03">March (03)</option>
  <option value="04">April (04)</option>
  <option value="05">May (05)</option>
  <option value="06">June (06)</option>
  <option value="07">July (07)</option>
  <option value="08">August (08)</option>
  <option value="09">September (09)</option>
  <option value="10">October (10)</option>
  <option value="11">November (11)</option>
  <option value="12">December (12)</option>
</select>
```

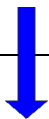
Month ▼

Year ▼



7. Within the cardyear selection list, ADD options for each year for years **2021** through **2025**. Make the list 'required'.

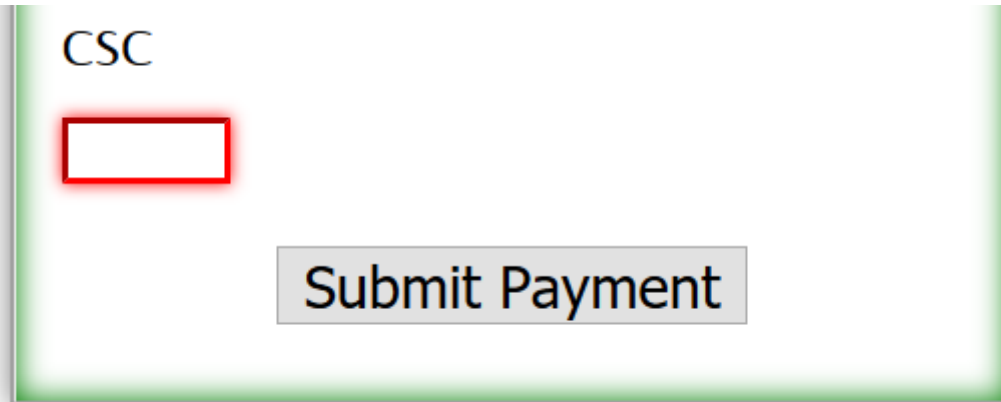
```
<select name="cardyear" id="year" required>
  <option value="">Year</option>
  <option value="2020">2021</option>
  <option value="2021">2022</option>
  <option value="2022">2023</option>
  <option value="2023">2024</option>
  <option value="2024">2025</option>
</select>
```



8. Make the **cardcsc** field required with a maximum character length of 3 characters and a regular expression of **`^\d{3}$`**

```
<label for="csc">CSC</label>
<input type="text" id="csc" name="cardcsc" pattern="^\d{3}$"
maxlength="3" required />

<input type="submit" value="Submit Payment" />
</fieldset>
</form>
</body>
</html>
```



CSC

Submit Payment

### 9. Update **code7-3\_valid.css**

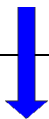
- Select any input or select element that has focus with a yellow background.
- Display any input element with invalid data in red font, surrounded by a red border and red box shadows.

```
@charset "utf-8";

/* Filename: code7-3_valid.css */

input:focus, select:focus {
    background-color: yellow;
}

input:invalid {
    color: red;
    border-color: red;
    box-shadow: 0px 0px 5px red;
}
```



## Payment Information

code7-3.html

10. Save and test!

### Payment Information

Visa ▾

Name

Peter

Card Number

422222222222

Month ▾

Year ▾

CSC

345

Submit Payment

**Your form has been submitted!**

**You entered the following data:**

```
creditcard=visa  
cardname=Peter  
cardnumber=422222222222  
cardmonth=08  
cardyear=2023  
cardcsc=345
```

Submitted to FormProcessor.html

