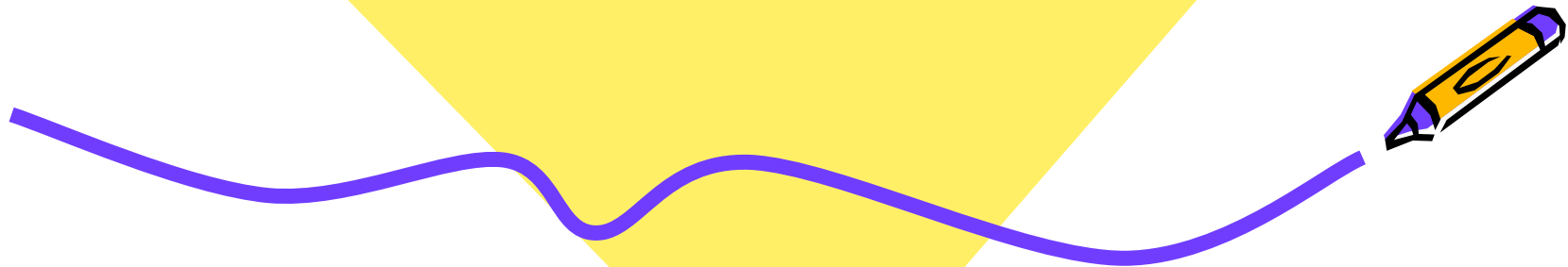


Chapter 12 Increasing the Interactivity

Xin Miao



The Conditional Statement

```
if (some condition is true)
```

```
{ Do Job1}
```

```
else if (another condition is true )
```

```
{Do job2}
```

```
else
```

```
{Do other things}
```

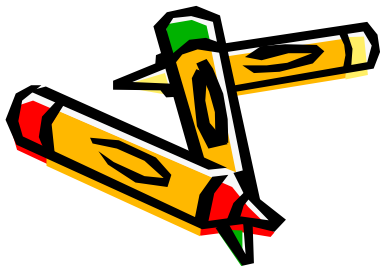
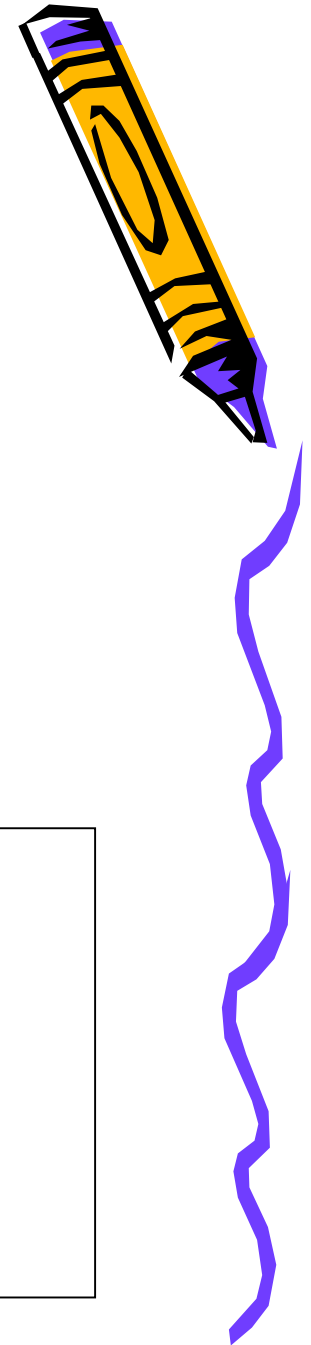
```
if (firstNum > 12) {
```

```
  if (firstNum < 25 ) {
```

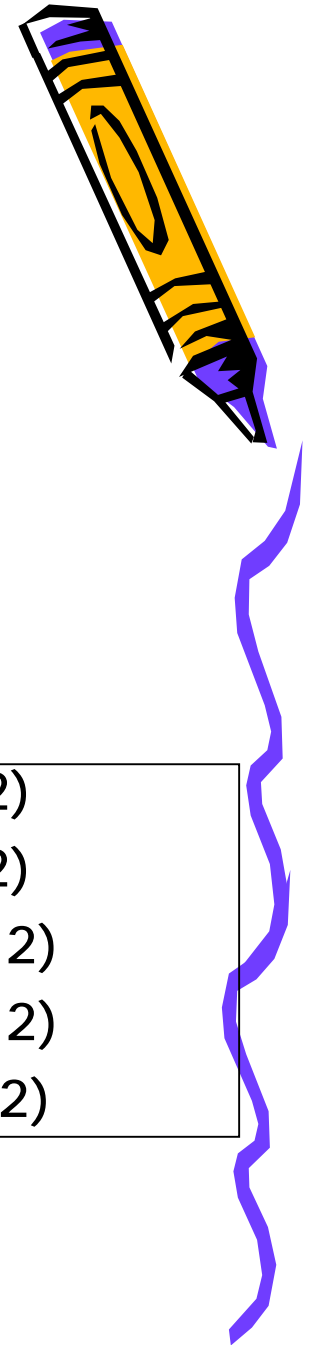
```
    alert("The Number is between 12 and 25")
```

```
  }
```

```
}
```

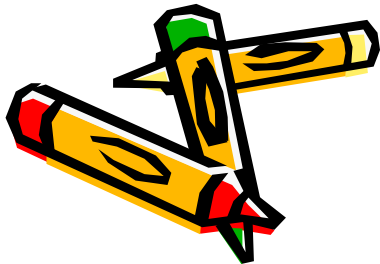


The Relational Operators



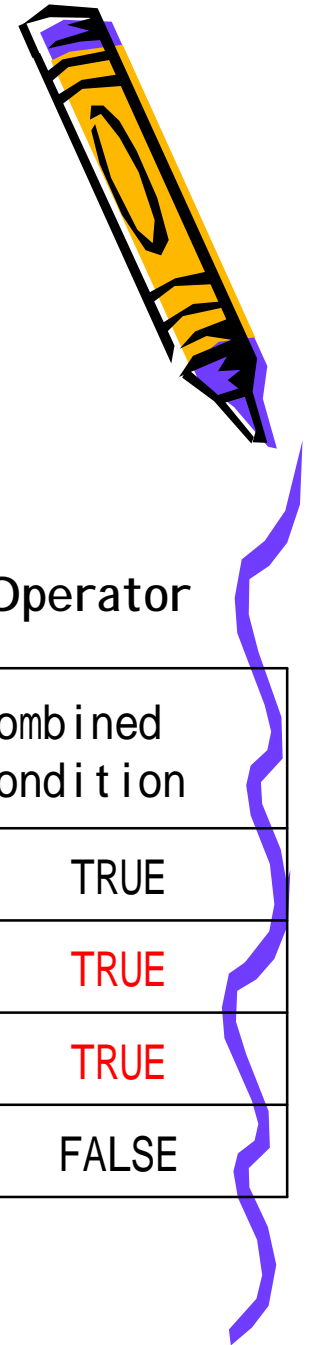
```
var result
if (result == 12)
  { alert ("The result is equal to 12") }
else
  { alert ("The result is not 12") }
```

<	less than	if (theAnswer < 12)
>	greater than	if (theAnswer > 12)
<=	less than or equal to	if (theAnswer <= 12)
>=	greater than or equal to	if (theAnswer >= 12)
!=	not equal	if (theAnswer != 12)



Logical Operators

AND: **&&** OR: **||** NOT: **!**



Truth Table for the “and” Operator

Condition 1	Condition 2	Combined condition
TRUE	TRUE	TRUE
TRUE	FALSE	FALSE
FALSE	TRUE	FALSE
FALSE	FALSE	FALSE

Truth Table for the “or” Operator

Condition 1	Condition 2	Combined condition
TRUE	TRUE	TRUE
TRUE	FALSE	TRUE
FALSE	TRUE	TRUE
FALSE	FALSE	FALSE

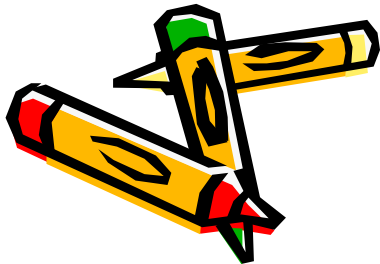
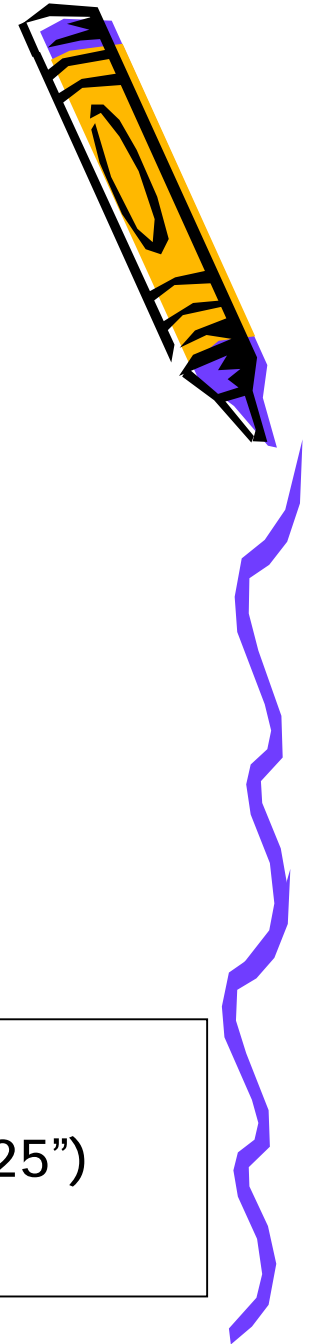


Logical Operators

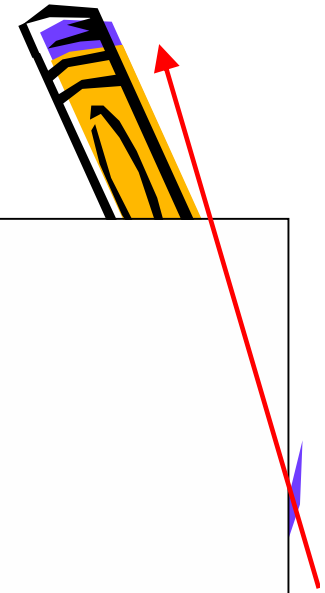
```
if (firstNum > 12) {  
    if (firstNum < 25 ) {  
        alert ("The Number is between 12 and 25")  
    }  
}
```

vs.

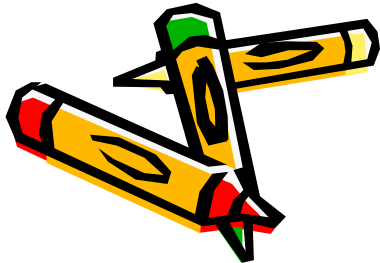
```
if ((firstNum > 12) && (firstNum < 25 )) {  
    alert ("The Number is between 12 and 25")  
}
```



Check Boxes



```
1 <html>
2 <head>
3   <title>CheckBox Demo</title>
4 </head>
5 <body>
6 <form id="pizzaForm" name="pizzaForm">
7   Select your preferred pizza topping:<br/>
8   <input type="checkbox" name="pepperoniCB" />pepperoni <br/>
9   <input type="checkbox" name="sausageCB" />sausage <br/>
10  <input type="checkbox" name="tomatoCB" />tomato <br/>
11  <input type="checkbox" name="oliveCB" />olive <br/>
12  <input type="checkbox" name="mushroomCB" />mushroom <br/>
13  <input type="checkbox" name="anchovieCB" />anchovie <br/>
14  <input type="button" id="button1" name="button1" value="Place your order now!" /><br/>
15  See your Order:<br/>
16  <input type="text" id="output1Box" name="output1Box" size="50" /><br/>
17 </form>
18 </body>
19 </html>
```



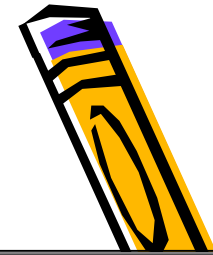
Select your preferred pizza topping:

- pepperoni
- sausage
- tomato
- olive
- mushroom
- anchovie

Place your order now!

See your Order:

Radio Buttons



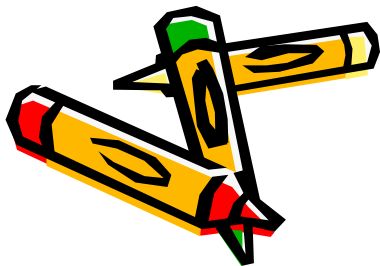
```
1 <html>
2 <head>
3   <title>Radio Button Demo</title>
4 </head>
5 <body>
6 <form id="pizzaForm" name="pizzaForm">
7   Select your preferred pizza crust:<br/>
8   <input type="radio" name="RB" /> thin <br/>
9   <input type="radio" name="RB" /> thick white <br/>
10  <input type="radio" name="RB" /> thick wheat <br/>
11  <input type="button" id="button1" name="button1" value="Place your order now!" /><br/>
12  See your Order:<br/>
13  <input type="text" id="output2Box" name="output2Box" size="50" /><br/>
14 </form>
15 </body>
16 </html>
```

Select your preferred pizza crust:

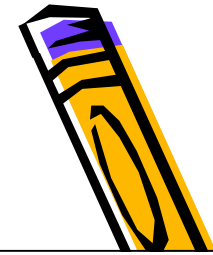
- thin
- thick white
- thick wheat

Place your order now!

See your Order:



Pop-up Menus



```
1 <html>
2 <head>
3   <title>Pop-up Menu Demo</title>
4 </head>
5 <body>
6 <form id="pizzaForm" name="pizzaForm">
7   <b>Select your preferred delivering store:</b><br/>
8   <select name="location">
9     <option value="midtown"> midtown</option>
10    <option value="south"> south</option>
11    <option value="north"> north</option>
12    <option value="east"> east</option>
13    <option value="west"> west</option>
14  </select><br/>
15  <input type="button" id="button1" name="button1" value="Place your order now!" /><br/>
16  See your Order:<br/>
17  <input type="text" id="output3Box" name="output3Box" size="50" /><br/>
18 </form>
19 </body>
20 </html>
```

Select your preferred delivering store:


midtown ▼

Place your order now!

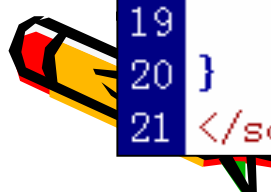
See your Order:



Retrieve the information



```
1 <script type="text/javascript">
2 function respondToOrder(f) {
3     if (f.anchovieCB.checked) {
4         f.output1Box.value="Anchovies? Count me out!"
5     }
6     else {
7         f.output1Box.value="Excellent choice!"
8     }
9
10    if (f.RB[0].checked) {
11        f.output2Box.value="Crisp and crunchy!"
12    } else if (f.RB[1].checked) {
13        f.output2Box.value="Nice and chewy!"
14    } else if (f.RB[2].checked) {
15        f.output2Box.value="Sounds healthy!"
16    }
17
18    f.output3Box.value="Your order will be delivered from our "+
19        f.location.options[f.location.selectedIndex].value +" location"
20 }
21 </script>
```

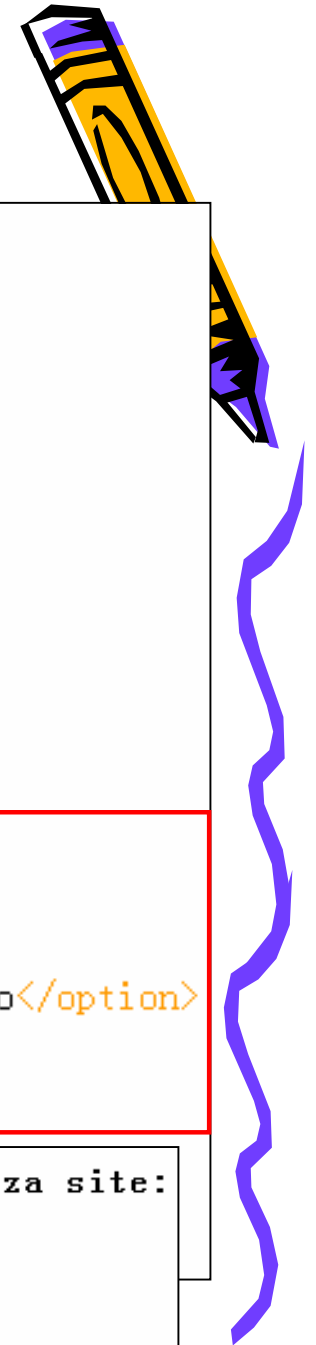


Quick Links Menu

```
1 <html>
2 <head>
3   <title>Quick Links through Pop-up Menu Demo</title>
4   <script type="text/javascript">
5     function jumpToPage(f) {
6       location.href=f.link.options[f.link.selectedIndex].value
7     }
8   </script>
9 </head>
10 <body>
11 <form id="pizzaForm" name="pizzaForm">
12   <b>Select your preferred pizza site:</b><br/>
13   <select name="link" onchange="jumpToPage(document.pizzaForm)" />
14     <option value=""> quick links</option>
15     <option value="http://www.pizzahut.com/"> pizzahut</option>
16     <option value="http://www.ecst.csuchico.edu/~pizza/"> csuchico</option>
17     <option value="http://www.papajohns.com/">papajohns</option>
18   </select><br/>
19 </form>
20 </body>
21 </html>
```

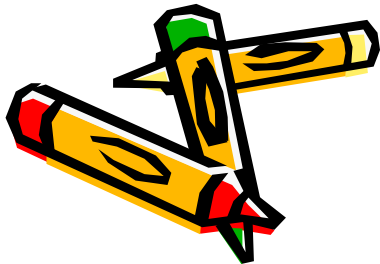
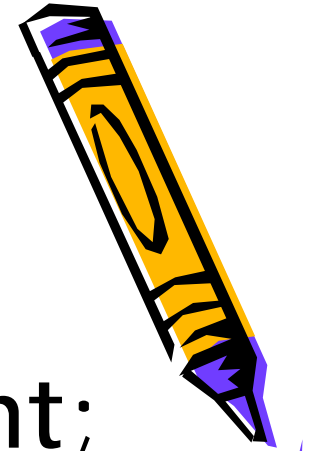
Select your preferred pizza site:

quick links ▾
quick links
pizzahut
csuchico
papajohns



Summary

- “I f... else” Conditional Statement;
- Relational Operators and Logical Operators
- Create check boxes
- Create radio buttons
- Create a pop-up menu



Lab Exercises for Ch12

- Lab Ex. **12.1**, **12.2** and **12.3**
(P.365-367)
- 12.3-part2 is optional.

