



Lab04

COP 2500

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Date

Most Important part

<code><html></code>	<code><html></code>
<code><head></code>	<code><head></code>
<code><title>Name</title></code>	<code><title>Name</title></code>
<code><!-- comment lines --></code>	<code><script language="JavaScript"></code>
<code><!-- Name --></code>	<code>// Comment lines</code>
<code><!-- Email --></code>	<code>// Name</code>
<code><!-- Lab 02 --></code>	<code>// Email</code>
<code></head></code>	<code>// Lab02</code>
	<code></script></code>
<code><body></code>	<code></head></code>
	<code><body></code>
<code></body></code>	<code></body></code>
<code></html></code>	<code></html></code>



Lab Overview

- Create AND save it as
`'dataTypesConditionalsAndLoops.HTML'`
- Scenario 1:
 - Ask user to enter two number using two prompt box
 - Convert them to numeric numbers using `Number()`
 - Display the product of two numbers using alert box
- Scenario 2:
 - Ask user to enter body temperature using prompt box
 - Convert it to Float type using `parseFloat()`
 - Use `If..Else` and Display decision



Lab Overview

- Scenario 3:
 - Ask User to enter number of cats own.
 - Display statement based on number enter using switch case
- Scenario 4:
 - Calculate compound interest on given amount for 10year
 - Display calculated compound interest for each year



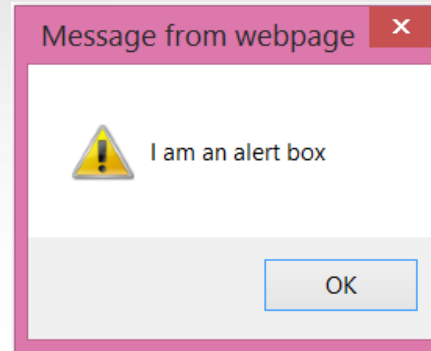
What should you know to solve assignment?

1. Variable Creation
2. Popup Boxes (prompt and alert)
3. Conditional Statements (if-else)
4. Converting String to Integer using "Number()"
5. Converting String to Float using "parseFloat()"
6. "Switch...case"
7. "For" Loop
8. Display result using document.write()

Popup Boxes

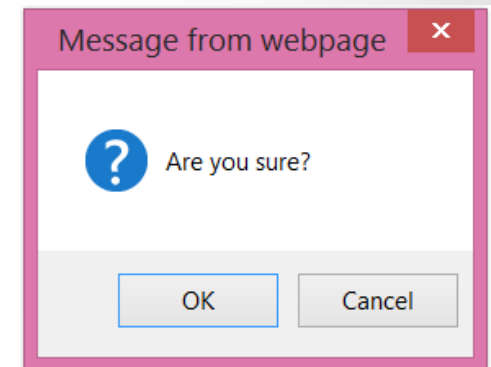
Alert box:

```
alert("I am an alert box!");
```



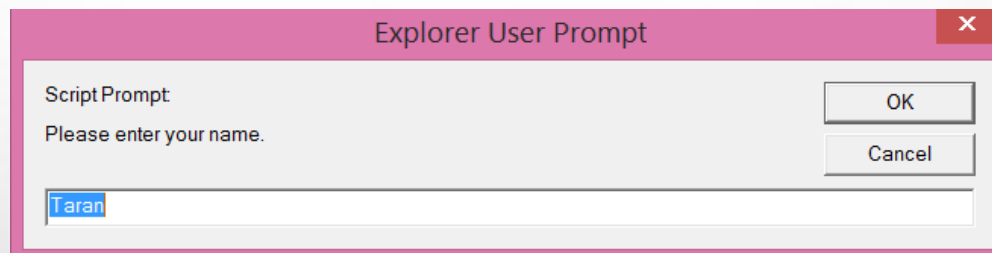
Confirm box:

```
var r = confirm("Press a button");
```



Prompt box:

```
var name = prompt("Please enter your name", "Taran");
```



If...Else...Conditional Blocks

Conditional statements are used to perform different actions based on different conditions.

```
if (time<20)
{
x="Good day";
}
```

```
if (time<20)
{
x="Good day";
}
else
{
x="Good evening";
}
```

```
if (time<10)
{
x="Good morning";
}
else if (time<20)
{
x="Good day";
}
else
{
x="Good evening";
}
```



Converting String To Integer

```
var a = Number("45");
```

Or

```
var a = prompt("Give me number");  
var b = Number(a);
```




Converting String To Float

```
var a = parseFloat("3.65897");
```

Or

```
var a = prompt("Give me number", "3.666985");  
var b = parseFloat(a);
```

Switch Case

Use the switch statement to select one of many blocks of code to be executed.

```
switch(n)
{
case 1:
    execute code block 1
    break;
case 2:
    execute code block 2
    break;
default:
    code to be executed
    if n is different
    from case 1 and 2
}
```

```
var day=2;
switch(day)
{
case 0:
    x="Today is Sunday";
    break;
case 1:
    x="Today is Monday";
    break;
case 2:
    x="Today is Tuesday";
    break;
default:
    x="Looking forward to the
Weekend";
}
```

For Loop

Loops can execute a block of code a number of times

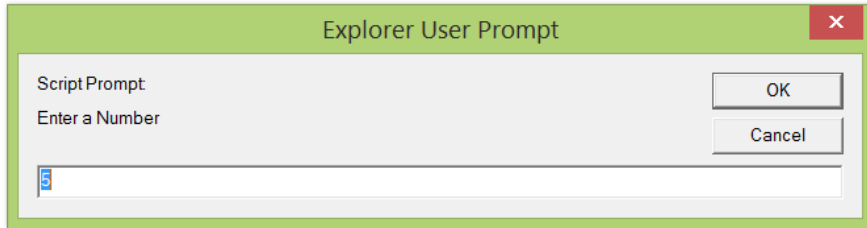
```
document.write(1+ "<br>");  
document.write(2+ "<br>");  
document.write(3+ "<br>");  
document.write(4+ "<br>");  
document.write(5+ "<br>");  
document.write(6+ "<br>");
```

```
for (var i=1;i<=6;i++)  
{  
  document.write(i + "<br>");  
}
```

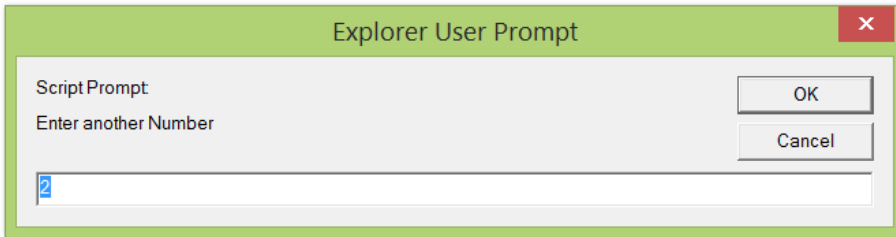
```
for (statement 1; statement 2; statement 3)  
{  
  the code block to be executed  
}
```

dailogsAndOperators.html

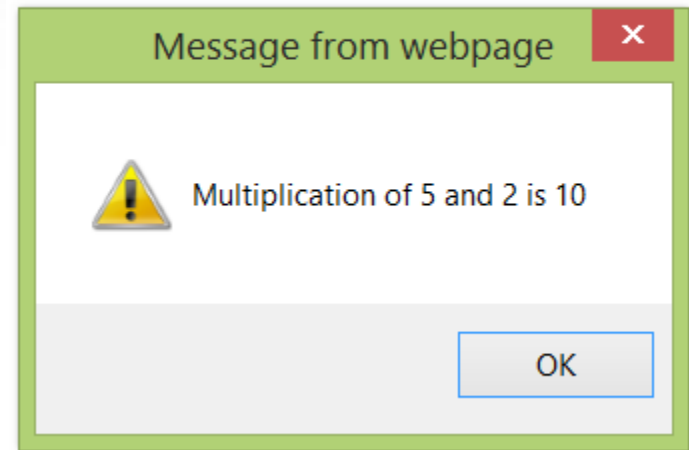
Scenario 1



Scenario 1

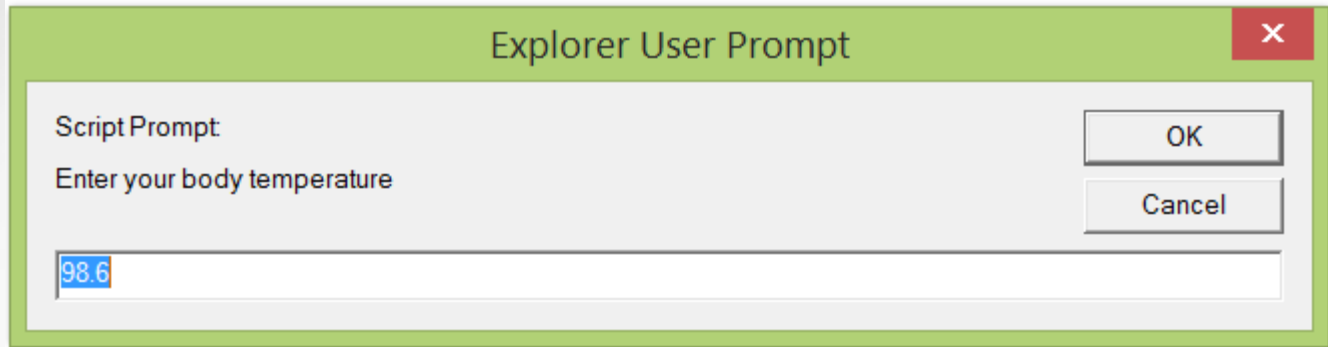


Scenario 1

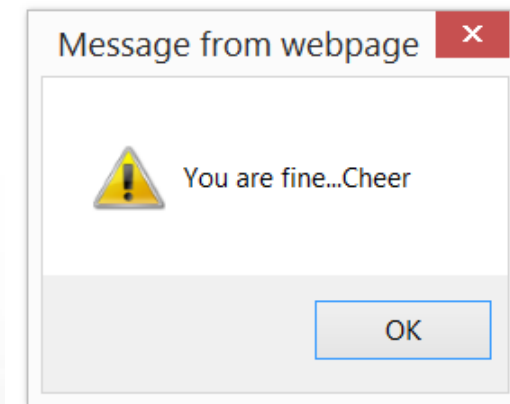


dailogsAndOperators.html

Scenario 2

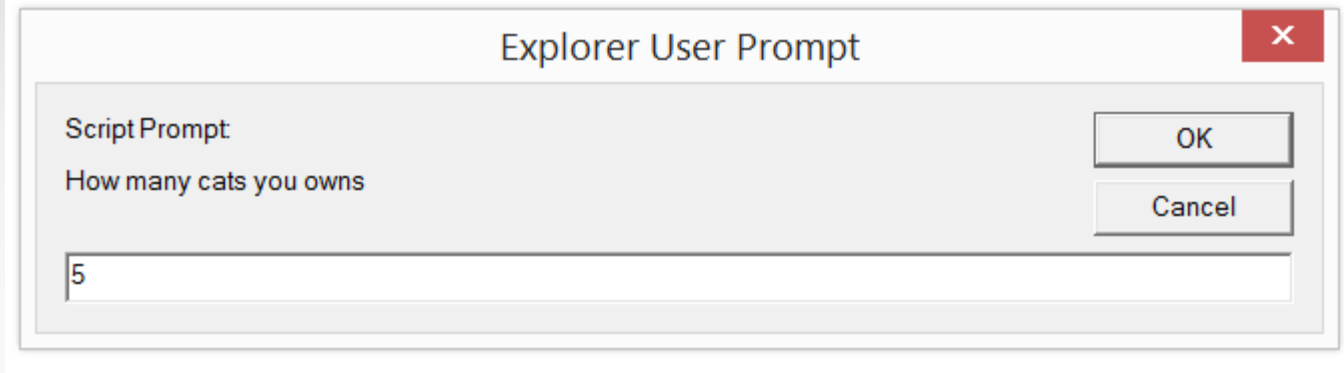


Scenario 2

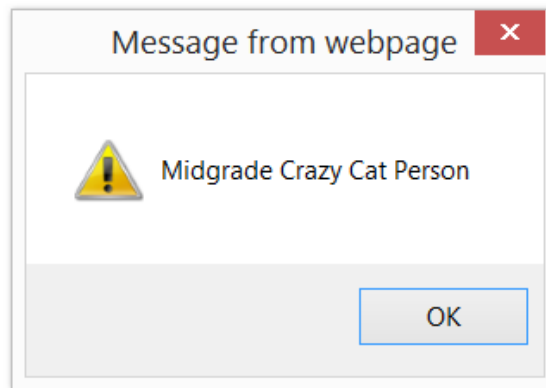


dailogsAndOperators.html

Scenario 3



Scenario 3



dailogsAndOperators.html

Scenario 4

Given investment amount is 100000

Given interest rate is 0.08

Calculated compound interest for 1 year is 108000

Calculated compound interest for 2 year is 115999.999999999998

Calculated compound interest for 3 year is 124000

Calculated compound interest for 4 year is 132000

Calculated compound interest for 5 year is 140000

Calculated compound interest for 6 year is 148000

Calculated compound interest for 7 year is 156000

Calculated compound interest for 8 year is 164000

Calculated compound interest for 9 year is 172000

Calculated compound interest for 10 year is 180000



Grading Rubric

- Scenario 1: 15
- Scenario 2: 20
- Scenario 3: 30
- Scenario 4: 35