

PROG8020

Midterm Review

JavaScript Review

Coding Standards for Javascript

- camelNotation
- header comments: your name, name of the program, date created
- functions – comment explaining the function
- All scripting needs to be indented between script tags
- Indentations: (if, loops etc...)
- if condition
- {
- statements;
- }
- No shortcut naming conventions

What is the value of i after running the following code segment?

```
i = 12;  
j = -1;  
if (i < j)  
{  
    i = i + 1;  
}  
elseif (i > j)  
{  
    i = i + 2;  
}  
else  
{  
    i = 6;  
}
```

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What code would give me the following output using an array?

The output would be: “numb = 1, numb=2, numb=3, or numb = 4”

What would be the output of the following code?

```
function change_value(input)
{
    input = input * input;

    return input;
}
input = 5;
input2 = change_value(input);
print "input2";
```

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Explain abs() and give an example:

- The absolute value function takes a single numerical argument and returns its absolute value.
- For example, the following
 - `x=abs (-5) ;`
 - `y=abs (42) ;`
 - `print "x=x y=y";`
- Will output
 - `x=5 y=42`

Using isNaN

What would this return:

```
var a = isNaN(123) + "<br>";  
var b = isNaN(-1.23) + "<br>";  
var c = isNaN(5-2) + "<br>";  
var d = isNaN(0) + "<br>";  
var e = isNaN("Hello") + "<br>";  
var f = isNaN("2005/12/12") + "<br>";  
  
var res = a + b + c + d + e + f;
```


isNan (2)

false

false

false

false

true

true

getElement

What would the result be:

```
var list=document.getElementsByTagName("UL")[0]  
list.getElementsByTagName("LI")[0].innerHTML="Milk";
```

Before changing the text:

- Coffee
- Tea

getElement (2)

- After changing the text:
 - Milk
 - Tea

function

```
function simpleCalc( num1, num2 )
{
  // PURPOSE: returns largest of 2 numbers
  // ARGUMENTS: num1 – 1st number, num2 – 2nd number

    if (num1 > num2)
    {
        return(num1);
    }
    else
    {
        return(num2);
    }
}

//Calling functions named simpleCalc
largest = simpleCalc(15, -22);
document.write( largest);
```

Return null if true

Action="#"

How many times will “Hello” be displayed after the following code runs?

```
<script language="javascript">
```

```
    var x = 0; var y=0;
```

```
    while (x<3)
```

```
        {
```

```
            y = 1;
```

```
            while (y<2)
```

```
                {
```

```
                    document.write("Hello");
```

```
                    y++;
```

```
                }
```

```
        }
```

```
</script>
```

What is a Parallel Array?

The goal of ParallelArray is to enable data-parallelism in web applications

What is a hidden field?

- A hidden field is an HTML form element that is not visible on the form. The following is an example of the syntax used to set a hidden field.

How is it set?

```
<input type="hidden" name="Name" value="Liz">
```


Why should you make a .js file?

- Common functions that occur in many programs, all information is passed to the functions
- .js file to match to the html

Button click, onSubmit. Difference?

- Button click – executes on the click of the button with a function name
- onSubmit = “return validate()”, in the form tag and post’s the information in the action=“#”;

Write a program that checks whether the value of a variable called name contains the sequence “ABC” or “DEF”?

Make sure you can validate and give a compound error message focus on the first field