**Reviewing Assignment**

Assignment 1

|  |  |
| --- | --- |
| Started: | Sep 23, 2014 11:24 PM |
| Finished: | Sep 29, 2014 7:56 PM |

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**Assignment 1     Total Grade: 54   (of possible 60 points)**

Try to answer the homework questions without using the JavaScript interpreter first to check your understanding.

You should verify your answer with the interpreter when you think you’ve got it.

Some questions have specific hints.  Make sure you press on the Hints link to see them.

All questions are based on ECMAScript 5.

**Question 1 of 12     Score: 4   (of possible 4 points)**

Tell me about yourself.

What is your programming background?  What other programming courses, if any, have you taken?

What programming languages have you used?

**Answer**

I am taking this class to have more skills usable at my job.  I currently work as a SQA engineer.  I've taken the Introduction to Java last semester at Foothill.  I don't really code at work but sometimes I do need to review other people' code.

**Question 2 of 12     Score: 0   (of possible 0 points)**

The discussion forums are an essential tool in this course.

For this question, your task is to post in the Expectations forum and answer the question:

What do you expect to learn in this course?

This question will be graded on the forums (for participation).

**Answer**

*No answer is expected for this question.*

**Question 3 of 12     Score: 5   (of possible 5 points)**

Which of the following are valid ways to add comments in JavaScript?

**Check ALL that apply.**

|  |  |  |
| --- | --- | --- |
|  | A. | newName = name.toUpperCase();  / convert the name to uppercase |
|  | B. | newName = name.toUpperCase();  /\* convert the name to uppercase       /\* |
| Correct | C. | newName = name.toUpperCase(); // convert the name to uppercase |
|  | D. | newName = name.toUpperCase();  # convert the name to uppercase |
| Correct | E. | newName = name.toUpperCase();  /\*  convert the name to  uppercase  \*/ |

 Answer Key: C,E

**Question 4 of 12     Score: 4   (of possible 4 points)**

What is the value of the following expression:

50 + 10 \* 2 - 50 / 5

Correct{60}

 Answer Key: 60  (numeric)

**Feedback**

The multiplication and division have higher precedence than addition and subtraction.  So the expression is evaluated as:

50 + (10 \* 2) -  (50 / 5)

50 + 20 - 10

60

**Question 5 of 12     Score: 6   (of possible 6 points)**

Match each of the items below to the corresponding data type.

To verify your answers, use the typeof operator in the Firebug console.

|  | Choices - use a choice only once |
| --- | --- |
| A. | string |
| B. | number |
| C. | undefined |
| D. | boolean |
|  | Match each of the following to a choice |  |  |
| 1. | "hi" && 10 > 3 | https://myetudes.org/ambrosia_library/icons/correct.png |  |
| 2. | "true" | https://myetudes.org/ambrosia_library/icons/correct.png |  |
| 3. | -3.2e12 | https://myetudes.org/ambrosia_library/icons/correct.png |  |
| 4. | undefined | https://myetudes.org/ambrosia_library/icons/correct.png |  |

 Answer Key: 1 - D, 2 - A, 3 - B, 4 - C

**Question 6 of 12     Score: 5   (of possible 5 points)**

Evaluate the following expression:

2 > 4 || 4 === 2 + 3 && 'A' < 'a'

|  |  |  |
| --- | --- | --- |
|  | A. | 4 |
|  | B. | true |
|  | C. | 2 |
| Correct | D. | false |

 Answer Key: D

**Question 7 of 12     Score: 5   (of possible 5 points)**

Consider the following variable declaration:

var greeting = 'Hello';

var greeting = "Hello";

What is greeting[0]?

var greeting = 'Hello';var greeting = 'Hello';var greeting = 'Hello';var greeting = 'Hello';

var greeting = 'Hello';

var greeting = 'Hello';

|  |  |  |
| --- | --- | --- |
|  | A. | undefined |
| Correct | B. | "H" |
|  | C. | "" |
|  | D. | "g" |
|  | E. | "o" |
|  | F. | "e" |

 Answer Key: B

**Question 8 of 12     Score: 5   (of possible 5 points)**

Consider the following lines of code:

var  rating = "G";

var movie = "Cars";

var rating;

What is the value of the variable rating after the 3 lines above are executed?

var rating = "G"; movie = "";

movie = "Cars";

var rating;

|  |  |  |
| --- | --- | --- |
|  | A. | "" |
| Correct | B. | "G" |
|  | C. | "Cars" |
|  | D. | undefined |

 Answer Key: B

**Feedback**

If you re-declare a JavaScript variable, it will not lose its value:

**Question 9 of 12     Score: 0   (of possible 6 points)**

Consider the following variable declaration:

var thing = null;

What is the value of the following expression:

thing && thing.length

|  |  |  |
| --- | --- | --- |
| Incorrect | A. | undefined |
|  | B. | true |
|  | C. | 8 |
|  | D. | false |
|  | E. | 5 |
|  | F. | null |

 Answer Key: F

**Feedback**

thing is a variable not a string so we need to replace it by its value.  Its value is null which is falsy.

The && (and) operator in JavaScript produces **the value of the first operand if the first operand is falsy.**

**Question 10 of 12     Score: 6   (of possible 6 points)**

What is the value of  the following expression in JavaScript:

10 + 2 +  ' students'

Correct{12 students}

 Answer Key: "12 students"|12 students|'12 students'

**Feedback**

10 and 2 are added first then they are concatenated with '  students'.

**Question 11 of 12     Score: 7   (of possible 7 points)**

Our task is to  write some JavaScript code to**find the first occurrence of a given letter in a word.**  Both the letter and the word are in  lowercase.

Which of the following expressions computes the position of that first occurrence correctly?  We'll assume that the first letter in the word is at position 0.

For example if word = 'javascript' and letter = 'a', position should be 1.

If word = 'javascript' and letter = 't', position should be 9.

If word = 'javascript' and letter = 'w', position should be -1.

|  |  |  |
| --- | --- | --- |
|  | A. | position = letter.indexOf (word); |
| Correct | B. | position = word.indexOf( letter ); |
|  | C. | position = letter.substring( word ); |
|  | D. | position = word [ letter ]; |

 Answer Key: B

**Question 12 of 12     Score: 7   (of possible 7 points)**

Our task is to write some JavaScript code that will replace one character at a given index position in a given string by a given letter.

For instance if I start with myString = 'jxxxxxxxxx' , letter = 'a' and position = 1, the new string should be: 'jaxxxxxxxx': we replace one character at position 1 in the string 'jxxxxxxxxx' by 'a' so we get 'jaxxxxxxxx'.

Which of the following expressions achieves that?

|  |  |  |
| --- | --- | --- |
| Correct | A. | myString = myString.substring(0, position) + letter + myString.substring(position + 1); |
|  | B. | myString.replace( position, letter ); |
|  | C. | myString.charAt ( position )  = letter; |
|  | D. | myString [ position ] = letter ; |

 Answer Key: A

**Feedback**

**Strings are immutable, we cannot change individual characters in a string.** We need to reassign a new value to the variable myString.

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