edX

IBM CAD101EN
Introduction to Web Development with HTML5, CSS3, and JavaScript

Help

Course   **Progress**   **Dates**   **Discussion**

🏠 **Course** / **Module 4 - JavaScript Programming for Web Applications** / **Graded Quiz**

⟨ Previous   ✏️ ✓   Next ⟩

Module 4 - Graded Quiz

🔖 Bookmark this page

Graded Quiz due Dec 18, 2023 11:13 IST   Completed

Question 1

1/1 point (graded)
In the following declaration, what is the type of the variable 'pi'?
var pi = "3.14" ;

○ number

○ float

◉ string

○ char

✔

Answer
Correct:
Variables in JavaScript assumes the data type from of a variable when it's assigned, meaning in this case `pi` is the same type as "3.14". Since "3.14" contains multiple characters in quotation marks, it is a string. Refer to the "JavaScript Language - Overview and Syntax" and "JavaScript Variables and Control Statements" videos for more information.

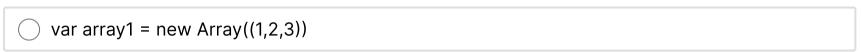**Submit**   You have used 1 of 2 attempts

Question 2

1/1 point (graded)
How do you define an array called array1 in JavaScript?

○ var array1 = (1,2,3)

◉ var array1 = [1,2,3]

○ var array1 = new Array[1,2,3]

○ var array1 = new Array((1,2,3))

✔

Answer
Correct:
Array literals are created by declaring array elements within square brackets, as shown above. Refer to the "JavaScript Language - Overview and Syntax" video for more information.

Submit   You have used 1 of 2 attempts

Question 3

1/1 point (graded)
What does the following statement do?

var ndate = new Date() ;

○ Assigns an empty string with the properties of dates to ndate

○ Assigns the current Greenwich Mean Time to ndate

⦿ Assigns the current local time to ndate

○ Returns an error

✔

Answer
Correct:
Providing no arguments to the Date constructor returns the current local time based on your system settings. Refer to the "JavaScript Language - Overview and Syntax" video for more information.

| Submit | You have used 1 of 2 attempts |

Question 4

1/1 point (graded)
Which DOM function returns a node object matching a div with an id value "example_id"?

○ document.getElementById(div, "example_id")

○ element.getNodeById("example_id")

⦿ document.getElementById("example_id")

○ div.getValueOf("example_id")

✔

Answer
Correct:
To get an object given a specified id, the document.getElementById() method should be used. This looks for a specific id, and does not differentiate between the different tags. Refer to the "JavaScript DOM Objects" video for more information.

| Submit | You have used 1 of 2 attempts |

Question 5

1/1 point (graded)
How are numbers converted to strings?

○ string(123)

○ (123).string

○ toString(123)

⦿ (123).toString()

✔

Answer
Correct:
Converting a value to a String requires calling the "toString" method on the object (in this case numbers) and providing no arguments. Refer to the "JavaScript Language - Overview and Syntax" video for more information.

| Submit | You have used 1 of 2 attempts |

Question 6

1/1 point (graded)
What is the value of 'total' after the following statement is executed?
var total = 10 + 1 +" 3";

○ 14

○ "1013"

◉ "113"

○ This results in an error

✔

Answer
Correct:
JavaScript will execute this statement in order. 10 and 1 are both numbers and will be added as such (10 + 1 = 11). Then, this new value (11) will be concatenated with the string "3", resulting in "113".
Refer to the "JavaScript – Browser Console" reading for more information.

Submit | You have used 1 of 2 attempts

Question 7

1/1 point (graded)
What would the alert be, when the following code is executed?
var a = new String("Hello");
var b = "Hello";
if (a ===b){
alert("Same");
}else{
alert("Different");
}

○ It would not give any alert as it is an error

◉ Different

○ Same

○ None of the above

✔

Answer
Correct:
The "===" operation checks if the operand on the left is of **equal value** and **equal type** to the operand on right. Since Strings declared by the String wrapper object are different than the primitive string data type, ' a ' and ' b ' are different types, despite them being the same values.
Refer to the "JavaScript Language - Overview and Syntax" video and the "JavaScript – Browser Console" reading for more information.

Submit | You have used 1 of 2 attempts

Question 8

1/1 point (graded)

1/1 point (graded)

Which of the following is the proper way to create a 'for' loop?

○ loop (for i = minVal; i < maxVal; i++) { ... }

○ for (var i = minVal; i++; i < maxVal) { ... }

● for (var i = minVal; i < maxVal; i++) { ... }

○ for (i < maxVal) { ... }

✔

Answer
Correct:
A for loop requires 3 expressions within the parentheses: an initial expression, a conditional expression, and an increment expression. The expressions must appear in the order listed, and must be separated by a semi-colon (;), as shown in this example. Refer to the "JavaScript Variables and Control Statements" video for more information.

| Submit | You have used 1 of 2 attempts |

Question 9

1/1 point (graded)

Select **all** of the following which are properways to add a ' color ' property to a custom ' Car ' object.

☐ Car.prototype(Color, "Red")

☐ Car.color = "Red"

☑ Car.prototype.color = "Red"

☑ Modify the code of the Car object directly to add a `color` parameter in the constructor

✔

Answer
Correct:
Car.prototype.color = "Red" : All objects have a corresponding prototype, which make it easy to add properties and methods to all current and future instances of that object. Above is the correct usage of adding a property to a prototype. Refer to the "JavaScript Functions and Prototypes" video for more information.
Modify the code of the Car object directly to add a `color` parameter in the constructor: Modifying the object code directly is one way to add methods and properties to it. However, there are easier ways to do so. Refer to the "JavaScript Functions and Prototypes" video for more information.

Submit

Question 10

1/1 point (graded)

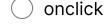Which of the following is not an event binder in JavaScript?

● onhover

○ onload

○ onmouseover

⚪ onclick

✔

Answer
Correct:
Onhover is not a valid event in JavaScript. A different event binder is used for when a user hovers over an element. Refer to the "Client-Side Javascript with HTML" video for more information.

| Submit | You have used 1 of 2 attempts |

| ‹ Previous | Next › |

![edX]

edX

About

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

Privacy Policy

Accessibility Policy

Trademark Policy

Sitemap

Cookie Policy

Your Privacy Choices

Connect

Idea Hub

Contact Us

Help Center

Security

Media Kit

![Facebook] ![Twitter] ![LinkedIn] ![Instagram] ![Reddit]

![GET IT ON Google play] ![Download on the App Store]