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Introduction to Programming Using JavaScript

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QUESTION 1

HOTSPOT

You are creating a JavaScript function that returns a date the specified number of months in the future of the current date.

The function must meet the following requirements:

Accept a number that represents the number of months to add or subtract from the current date.

Return the current data adjusted by the number of months passed into the function.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function adjustMonth(value) {
```

▼
var date = new Date();
var date = Date();
var date = new Date;
var date = Date;

▼
var month = date.getMonth;
var month = getMonth();
var month = date.getMonth();
var month = getMonth;

▼
date.setMonth(month + value);
setMonth(month + value);

```
    return date ;

}
```

Correct Answer:

Answer Area

```
function adjustMonth(value) {
```

▼
var date = new Date();
var date = Date();
var date = new Date;
var date = Date;

▼
var month = date.getMonth;
var month = getMonth();
var month = date.getMonth();
var month = getMonth;

▼
date.setMonth(month + value);
setMonth(month + value);

```
    return date ;

}
```

References: https://www.w3schools.com/js/js_dates.asp https://www.w3schools.com/js/js_date_methods.asp
https://www.w3schools.com/jsref/jsref_setmonth.asp

QUESTION 2

HOTSPOT

You are designing a web page that contains a list of animals. The web page includes a script that outputs animals from a list.

You create the following HTML to test the script:

```
<p>Animals</p>
<ul>
    <li>Dog</li>
    <li><b>Cat</b></li>
    <li>Lion</li>
</ul>
<p>Click the button to display the animals.</p>
<button onclick="showList()">Show List</button>
<div id="list"></div>
```

You need to create a function that will display the list of animals, including any formatting, in the div element. How should you complete the code? To answer, select the appropriate code segments in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function showList() {
    var list = document.[                              ▼]
                         ge:ElementsByTagName("li")
                         ge:ElementsByTagName("ul")
                         ge:ElementsByClassName("li")
                         ge:ElementByClassName("ul")

    for (var i = 0; i < list.length; i++) {

document [                              ▼]    ("list").[                    ▼]    +=list[i].[                    ▼]
         getElementsByTagName("li")                    innerText                  innerText
         getElementsByTagName("ul")                    innerHTML                  innerHTML
         getElementsByClassName("li")                  textContent                textContent
         getElementByClassName("ul")
```

Correct Answer:

Answer Area

```
function showList() {
    var list = document.[                              ▼]
                         ge:ElementsByTagName("li")
                         ge:ElementsByTagName("ul")  ← (highlighted)
                         ge:ElementsByClassName("li")
                         ge:ElementByClassName("ul")

    for (var i = 0; i < list.length; i++) {

document [                              ▼]    ("list").[                    ▼]    +=list[i].[                    ▼]
         getElementsByTagName("li") ←(hi)              innerText                  innerText ←(hi)
         getElementsByTagName("ul")                    innerHTML ←(hi)            innerHTML
         getElementsByClassName("li")                  textContent                textContent
         getElementByClassName("ul")
```

References: https://www.w3schools.com/jsref/met_element_getelementsbytagname.asp

QUESTION 3

You are creating a JavaScript program for an accounting system.

You create the following code. Line numbers are included for reference only.

```
01 var firstName = "Jo";
02 var lastName = "Berry";
03 var while = Date.now();
04 var color = "Red";
05 var break = "No";
```

You evaluate the code to ensure that it follows JavaScript best practices. Which two lines should you change?

A. 01

B. 02

C. 03

D. 04

E. 05

Correct Answer: CE

QUESTION 4

HOTSPOT

You are designing a function that allows you to perform unit tests on other functions in a library. You will invoke each library function by using the eval JavaScript function. If an exception occurs when invoking a function, you want to display a

message box with the following message:

The function does not exist.

How should you complete the code? To answer, select the appropriate code segment in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function unitTest(expression)
{
    [ catch    ▼ ]
    [ finally   ]
    [ try       ]
    {
        eval(expression);
    }

    [          ▼ ] (err)
    [ catch     ]
    [ finally   ]
    [ try       ]
    {
        alert("The function does not exist.");
    }
}
```

Correct Answer:

Answer Area

```
function unitTest(expression)
{
    [ catch    ▼ ]
    [ finally   ]
    [ try      ]  ← (highlighted)
    {
        eval(expression);
    }

    [          ▼ ] (err)
    [ catch    ]  ← (highlighted)
    [ finally   ]
    [ try       ]
    {
        alert("The function does not exist.");
    }
}
```

References: https://www.w3schools.com/jsref/jsref_try_catch.asp

QUESTION 5

DRAG DROP

You are creating a web page that requests a username.

You create the following HTML form:

```
<form id="credentials" action="#" method="get">
    <p>Username: <input type="text" id="username" /></p>
    <input type="button" onclick=" getUsername()" value="Submit">
</form>
```

You need to write a function that retrieves the username from the form.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each function may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view

content.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

document	firstChild	forms	HTMLDocument
innerHTML	value	window	

Answer Area

```
function getUsername() {
    var username = [          ] . [          ] .credentials.username. [          ] ;
    alert('Welcome, ' + username);
}
```

Correct Answer:

Code Segments

	firstChild		HTMLDocument
	value	window	

Answer Area

```
function getUsername() {
    var username = [document] . [forms] .credentials.username. [innerHTML] ;
    alert('Welcome, ' + username);
}
```

References: https://www.w3schools.com/jsref/coll_doc_forms.asp

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QUESTION 6

DRAG DROP

Evaluate the following code. Line numbers are included for reference only.

```
01 var n = 50;
02 var c = n + 5;
03 var a = n % 2;
04 var d = c / 11;
05 n = d * 2;
07 console.log(n, c, a, d);
```

What is the value of each variable at line 07? To answer, drag the appropriate value to the correct variable. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

| 0 | 5 | 10 | 55 | 100 | 110 | 25 | 1 |

Answer Area

n [ ]
c [ ]
a [ ]
d [ ]

Correct Answer:

Values

| | | | | 100 | 110 | 25 | 1 |

Answer Area

n [10]
c [55]
a [0]
d [5]

References: https://www.w3schools.com/js/js_arithmetic.asp

QUESTION 7

HOTSPOT

You are writing a JavaScript program for Blue Yonder Airlines. The program stores various information about the airline\\'s flights.

The program has initialized the following variables:

```
01 var flightDestination = "Denver";
02 var flight = 5;
03 var roundTrip = 2489.58;
04 var onTime = true;
05 var id = flight + flightDestination;
```

You need to determine the data type of the code segment based on initialization and the assignment of the variables. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

What is the data type for line 01?

▼
Number
String
Boolean
Null
Undefined

What is the data type for line 03?

▼
Number
String
Boolean
Null
Undefined

What is the data type for line 04?

▼
Number
String
Boolean
Null
Undefined

What is the data type for line 05?

▼
Number
String
Boolean
Null
Undefined

Correct Answer:

Answer Area

What is the data type for line 01?

Number
String
Boolean
Null
Undefined

What is the data type for line 03?

Number
String
Boolean
Null
Undefined

What is the data type for line 04?

Number
String
Boolean
Null
Undefined

What is the data type for line 05?

Number
String
Boolean
Null
Undefined

References: https://www.w3schools.com/js/js_datatypes.asp

QUESTION 8

HOTSPOT

You are using JavaScript to create a function that calculates admission price.

The function must meet the following requirements: The function accepts the age of the customer as a parameter A customer who is less than 5 years old gets in free A customer who is 65 years old or older gets in free A customer who

is 5 years old to 17 years old, pays $10 USD All other customers pay $20 USD

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function ticketPrice(age) {
    var price = 20;
```

▼
if (age <= 5 && age > 65) {
if (age < 5 && age >= 65) {
if (age <= 5 || age > 65) {
if (age < 5 || age >= 65) {

```
        price = 0;
    }
```

▼
if (age >= 5 && age < 18) {
if (age > 5 && age <= 18) {
if (age >= 5 || age < 18) {
if (age > 5 || age <= 18) {

```
        price = 10;
    }
    return price;
```

Correct Answer:

Answer Area

```
function ticketPrice(age) {
    var price = 20;
```

▼
if (age <= 5 && age > 65) {
if (age < 5 && age >= 65) {
if (age <= 5 || age > 65) {
if (age < 5 || age >= 65) {

```
        price = 0;
    }
```

▼	
if (age >= 5 && age < 18) {	
if (age > 5 && age <= 18) {	
if (age >= 5 || age < 18) {	
if (age > 5 || age <= 18) {	

```
        price = 10;
    }
    return price;
```

References: https://www.w3schools.com/jsref/jsref_operators.asp

QUESTION 9

HOTSPOT

Your instructor has asked you to write a program that uses simple rules to help determine if a person should take the train, drive their car, or ride a bike, depending on the conditions of the weather and the amount of gas in the car\\'s tank.

The program has the following requirements:

When the temperature is above 65 degrees and it is not raining, the person should be told to ride their bike.
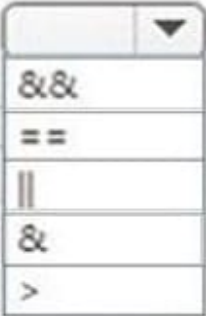
When it is raining, the person should be told to drive their car.

If their car has half a tank of gas or less, they should be told to take the train.

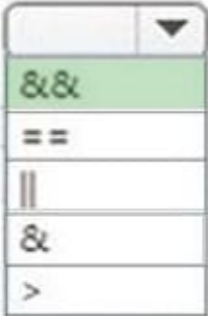How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

Answer Area

```
if(temperature > 65   [  ▼  ] !raining)
                      | &&      |
                      | ==      |
                      | ||      |
                      | &       |
                      | >       |
      advice = "Ride Bike";
  else if(fuelTank   [  ▼  ] .5)
                     | ==      |
                     | ||      |
                     | <=      |
                     | &&      |
                     | >       |
      advice = "Take Train";
  else
      advice = "Drive your car";
```

Correct Answer:

Answer Area

```
if(temperature > 65  [  && ▼ ]  !raining)
                        && 
                        ==
                        ||
                        &
                        >
    advice = "Ride Bike";
else if(fuelTank  [   <= ▼ ]  .5)
                     ==
                     ||
                     <=
                     &&
                     >
    advice = "Take Train";
else
    advice = "Drive your car";
```

References: https://www.w3schools.com/jsref/jsref_operators.asp

---

QUESTION 10

HOTSPOT

You are creating a function named countdown. The function accepts a single parameter, start, and displays a countdown from that number down to zero in increments of one.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

Answer Area

```
function countdown(start) {
    for (                ▼     ▼      ▼ ) {
          var i = start;     i<=0;     ++i
          var i == start;    i<0;      +i
          var i <= start;    i>0;      --i
          var i < start;     i>=0;     -i
        console.log(i);
    }
}
```

Correct Answer:

Answer Area

```
function countdown(start) {
    for (                ▼     ▼      ▼ ) {
          var i = start;     i<=0;     ++i
          var i == start;    i<0;      +i
          var i <= start;    i>0;      --i
          var i < start;     i>=0;     -i
        console.log(i);
    }
}
```

References: https://www.w3schools.com/js/js_operators.asp