

Summarization to JS

Main Points	Questions
<p>1. Hello Program:</p> <pre><script type="text/javascript"> document.write("hello world, hi mom"); </script></pre>	<p>What is the ending tag for JavaScript?</p> <p><input type="radio"/> <script LANGUAGE="JavaScript"> TAG</p> <p><input type="radio"/> </script> TAG</p> <p><input type="radio"/> <script> TAG</p> <p><input type="radio"/> None of the above</p>
<p>2. Use External File:</p> <p>In .html → <code><script type="text/javascript" src="script.js"></script></code></p> <p>In .js → <code>document.write("hello world, hi mom");</code></p>	<p>Which of the below JavaScript variable is defined correctly?</p> <p><input type="radio"/> var phone = 5873621;</p> <p><input type="radio"/> var name = "Victor";</p> <p><input type="radio"/> var amount = 45.20;</p> <p><input type="radio"/> All of Above</p>
<p>3. Comments:</p> <p>Single Line → <code>// Type your comments.</code></p> <p>Multi lines → <code>/* Type your sentences Continue Typing*/</code></p>	<p>Which of the following is not a valid JavaScript data type?</p> <p><input type="radio"/> String</p> <p><input type="radio"/> Integer</p> <p><input type="radio"/> Boolean</p> <p><input type="radio"/> Number</p>
<p>4. Variables:</p> <p>Not specific type it depends on the contents.</p> <pre>var title = "Temperature on Monday"; var x = 25; document.write("<h1>"+title+"</h1>"+x);</pre>	<p>Which of the below is correct way to Call a JavaScript function?</p> <p><input type="radio"/> function add_numbers()</p> <p><input type="radio"/> fun add_numbers();</p> <p><input type="radio"/> add_numbers()</p> <p><input type="radio"/> add_numbers();</p>
<p>5. Data Types:</p> <pre>var data1 = 123; var data2 = "hello world"; var data3 = true; var data4 = null; var data5 = undefined;</pre>	<p>Which of the following is not correct for JavaScript alert() function?</p> <p><input type="radio"/> Displays an alert box with a specified message</p> <p><input type="radio"/> Prevents the user from accessing other sections of the page until the alert box is closed.</p> <p><input type="radio"/> We cannot add multiple alerts in a single page</p> <p><input type="radio"/> None of the above</p>
<p>6. Alerts:</p> <p>It a modal window that display a data to the user.</p> <pre>window.alert("alert 1"); window.alert("alert 2"); var title = "Welcome to my webpage"; document.write("<h1>"+title+"</h1>");</pre>	
<p>7. Functions:</p> <pre>function firstname(){ // function declaration document.write("Victor "); } function lastname(sname){ document.write(sname); } firstname(); // call function var x="Bastos"; lastname(x); // call function and passing argument to it</pre>	

Main Points

8. Functions That Returns Value:

```
function firstname(first, second){
    var result = first+" "+second;
    return result;
}
var text = firstname("Yasser","Omar");
document.write(text);
```

9. Variable Scope:

```
var first = "john";
function first_name(){
    var second = "smith";
    document.write(first+" "+second);
}
first_name();
document.write(first);
document.write(second);
```

10. + Operator:

For string → concatenate for numbers → plus

```
var first = 3;
var txt = "HI ";
var calc = first + 2;
window.alert(calc+" "+txt);
```

11. Mathematical Operators:

```
var victor = 5;
Rem=victor % 2;
victor /=3;
window.alert(Rem + "*" + victor);
```

12. Comparisons Operators:

```
window.alert("4 === '4'+4 === '4'"); // strict equal comparator
window.alert("4 == '4'+ 4=='4'"); // equal comparator
```

13. Logical Operators:

```
alert((2==2) && (3==3)) // AND TRUE
alert((2!=2) || (3!=3)) // OR FALSE
alert(!(33 == 33)) // NOT FALSE
```

14. If else statement :

```
var car = "";
if (car != ""){
    document.write("it's a string with some characters");
}else{
    document.write("it's a string with no characters");
}
```

Questions

Which of the following is a valid exception handling statement in JavaScript?

☐ try

☐ catch

☐ finally

☐ All of Above

Which of the below is not correct for JavaScript prompt() method?

☐ prompt () is a user define method

☐ prompt () method opens box with input field

☐ The user will have to click either "OK" or "Cancel"

☐ All of Above

Which of the below is not a correct Arithmetic operation?

☐ + (Addition)

☐ - Subtraction

☐ X (Multiply)

☐ / (Division)

Which of following is not correct?

☐ (5>4) && (5<=5) return TRUE

☐ (9>10) && (9>6) return FALSE

☐ (5>4) || (5<=5) return TRUE

☐ (9>10) || (9>6) return FALSE

What would be the output of below JavaScript Code?

```
var a = 0;
if (a >= 1){
    document.write("I am here");
} else {
    document.write("I AM HERE");
}
```

☐ I am here

☐ I AM HERE

☐ Both of Above

☐ None of Above

Main Points

15. Nested If Statement:

```
var car = "Mercede";
var car2 = "Ferrari";
if(car == "Mercedes"){
    window.alert("car variable is a Mercedes,
car2!?");
    if (car2 == "Ferrari"){
        window.alert("car2 variable is a Ferrari");
    }else{
        window.alert("car2 variable is not a
Ferrari");
    }
}else{
    window.alert("car variable is not mercedes!");
}
```

16. Complex Conditions:

```
var num1 = 3;
var num2 = 2;
if ((num1 > 4) || (num2 > 3))
    document.write("it works!");
else
    document.write("the condition is false");
```

17. Switch Case:

```
var City = "Cairo";
switch (City){
    case "Cairo":
        document.write("This is the Capital of
Egypt");
        break;
    case "London":
        document.write("This is the Capital of U
K");
        break;
    default:
        document.write("Unknown City!");
}
```

18. Prompt :It allows user to enter value

```
var name = window.prompt("Enter your name
bellow:");
if (name == ""){
    document.write("Please type something");
}else{
    document.write("Welcome "+name);
}
```

19. Do While:

```
var test = 1;
do { document.write(test+" . Hello World!"+"<br />");
    test++;
} while (test < 6)
```

Questions

Below is the correct code to access array value at first index

☐ colors[1]

☐ colors[0]

☐ colors[one]

☐ None of Above

How will you start a while loop in JavaScript?

☐ while (num > 3)

☐ while(num=0; num<5;num++)

☐ while(num=0; num++)

☐ None of Above

Which of the following looping structure is not available in JavaScript?

☐ for

☐ for each

☐ do while

☐ while

Which of the following property returns the number of elements in an array?

☐ array.len

☐ array.size

☐ array.length

☐ None of Above

Which of the below is correct for Navigator Object?

☐ Property navigator.appName returns the name of browser

☐ Property navigator.appVersion returns the version information of browser

☐ javaEnabled() Method identify whether Java is enabled on browser or not

☐ All of Above

Main Points	Questions
<p>20. For Loop + Arrays:</p> <pre>var cars = new Array("Mercedes", "Ford", "Range Rover"); for (i=0; i<cars.length; i++){ document.write(cars[i]+"
"); }</pre> <p>21. Useful Array Methods:</p> <pre>var city = ["New York", "Miami", "Lisbon", "Madrid"]; city.push("Paris", "Dublin"); // add to existing array city.reverse();//reverse order for (i=0; i<city.length; i++){ document.write(city[i] + "
");}</pre> <p>22. Introduction to DOM:</p> <pre><div id="news1">Today's news are nothing special. Please come back tomorrow...</div> <script type="text/javascript"> var firstelement = document.getElementById("news1").innerHTML; alert(firstelement); </script></pre> <p>23. Introduction to Events:</p> <p>Code fires due to specific action.</p> <pre><form id="form1"> Title: <input type="text" id="title1" size="25">

 Description: <input type="text" id="desc1" size="55"><br <input type="button" value="Submit" onclick="doit();"> </form> <script type="text/javascript"> function doit(){ var title = document.getElementById("title1").value; var desc = document.getElementById("desc1").value; document.write("<h3>Title: </h3>" + title + "
"); document.write("<h3>Description: </h3>" + desc);} </script></pre> <p>24. CSS with Java Script:</p> <p>CSS → <code><style></code></p> <pre>#div1{ background-color: #000000; height: 130px; width: 130px; }</pre> <p><code></style></code></p> <p>HTML → <code><div id="div1"></div>
</code></p> <p>JS → <code>function blue(){</code></p> <pre>var bluediv = document.getElementById("div1"); bluediv.style.backgroundColor = "red"; }</pre> <p>25. More Events:</p> <pre><input type="text" onblur="alert('Please come back!')"> <input type="text" onfocus="alert('Type your name here!')"></pre> <p>26. Events Licensers:</p> <p>JS → <code>var webpage1 = "http://www.youtube.com";</code></p> <pre>var e1 = document.getElementById("one"); e1.addEventListener("click", function(){ //click not onclick window.location = webpage1; }, false);//3 Parameters</pre>	<p>Which of the below is correct for JavaScript DOM?</p> <p><input type="radio"/> DOM Stands for Document Object Model</p> <p><input type="radio"/> DOM Used to access and change HTML elements</p> <p><input type="radio"/> DOM used to add more HTML elements</p> <p><input type="radio"/> All of Above</p> <p>We can select an element based on unique ID with the..... method of the document object.</p> <p><input type="radio"/> getElementById()</p> <p><input type="radio"/> getElementsById()</p> <p><input type="radio"/> selectElementById()</p> <p><input type="radio"/> selectElementsById()</p> <p>Which of the below is a correct JavaScript event?</p> <p><input type="radio"/> Onfocus</p> <p><input type="radio"/> Onclick</p> <p><input type="radio"/> Onblur</p> <p><input type="radio"/> All of Above</p> <p>Which of the following is not a valid method of the String object?</p> <p><input checked="" type="radio"/> split()</p> <p><input type="radio"/> find()</p> <p><input type="radio"/> trim()</p> <p><input type="radio"/> concat()</p> <p>JavaScript library that has also classified as a framework</p> <p><input type="radio"/> jQuery</p> <p><input type="radio"/> Dojo Toolkit</p> <p><input type="radio"/> AngularJS</p> <p><input type="radio"/> All of Above</p>

Exercises

Working with JavaScript If-Else Statements

Please follow below instructions 1. Declare two JavaScript variables and assign these number values let's say 10 and 15 respectively. 2. Write a JavaScript conditional statement that accept these variables and show the greater value. 3. Print the result using write() method

index.js	1	
----------	---	--

Creating JavaScript Arrays and Loops

Please follow below instructions 1. Create a JavaScript array and insert any 5 city names in it. 2. Loop through this array using for loop. 3. alert the array elements within the for loop.

index.js	1	
----------	---	--

Changing paragraph text using JavaScript

Please follow below instructions 1. Create a paragraph with an id=para1. 2. Change the text within this paragraph using JavaScript.

index.html	1	<!DOCTYPE html>
	2	<html>
	3	<body>
	4	<meta charset="utf-8">
	5	<title>Exercise Name</title>
	6	
	7	
	8	
	9	</body>
	10	</html>