Technical Test: JavaScript Engineer

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# BASIC QUESTIONS

*Duration: 7 Minute*

*This section must be done without assistance of any electronic devices. Please write down your answer on provided space below each question*

**※** Part 1.1: JS Questions

1. a. <javascript></javascript>
   1. <script></script>
   2. <scripting></scripting>
   3. <js></js>

In which one of the above tags that javascript code should be put?

**b.**.

1. Consider this HTML element:

<p id="demo">This is a demonstration.</p>

Which one of codes below that can change the text of HTML element above?

1. document.getElementByName("p").innerHTML = "Hello World!";
2. document.getElement("p").innerHTML = "Hello World!";
3. document.getElementById("demo").innerHTML = "Hello World!";
4. #demo.innerHTML = "Hello World!";

**a**.

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1. What is the difference between NULL and UNDEFINED in javascript?

null = nilai yang mewakili tidak ada

undifined = variable belum di berikan nilai

1. Which one is the correct way of writing javascript array?

a. var members = ["sara", "damian", "nyssa"]

c. var members = "sara", "damian", "nyssa"

c. var members = 1 = ("sara"), 2 = ("damian"), 3 = ("nyssa")

d. var members = (1:"sara", 2:"damian", 3:"nyssa")

a.

1. $( ".navnews" ).click(function()

{ var id =

$(this).data('slide');

$( ".navnews" ).removeClass("active");

$(this).addClass("active");

if (id == 1) {

$(".stbox").css('margin-left', 0);

$(".newscap").css('margin-left', 0);

} else if (id == 2) {

$(".stbox").css('margin-left', -612);

$(".newscap").css('margin-left', -388);

} else if (id == 3) {

$(".stbox").css('margin-left', -1224);

$(".newscap").css('margin-left', -776);

}

});

Please explain what does code above means.

Baris kode perytama mengikat event handler ke even =t clickevent dari kelas .navnews. acara ini dpicu ketika pengguna mengklik suatu element. Pengdengar acara

Akan mengeksekusi kode di dalam tanda kurung. Baris kode keuda mengambil atribut data-slide dari element yang diclick. Properti data -slide adalah properti khusus yang di gunaka

Untuk menyimpan nilai silde yang sedang dipilih. Baris kode ketga menghapus kelas saat ini dati semua item. Baris kode ke 4 menambahkan kelas aktif ke element yang di click.

Kode ke -5 memeriksa nilai variabel id jika nilai 1 kode akan menyetl marigin kiri elemetn .stbox dan .newscap ke 0 .jika nilai 2 class .stbox dan .newcapce margin kiri -612px

Id === 3 class .stbo marigin left -1224px dan .newcap margin left -776px

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1. Which one is the correct way to detect client’s browser name?
2. client.navName
3. browser.name
4. navigator.appName
5. navigator.userAgent
6. Other (write down your own script if you choose this)

d.

# PROGRAMMING

*Duration: 1.5 Hours*

*Please read the instructions carefully before proceeding. Failure to comply with these instructions will only cause disadvantages.*

1. Your task is to create 7 script in JavaScript based on instruction below.
2. Utilization of JavaScript framework is prohibited.
3. Your code tidiness is considered.
4. After finishing this task, please put all your work files into a .zip compressed file with file name format as follow:

## [test date]-[your name]-[position applied].zip

1. The zip file must contains all JS, HTML and and other related assets.
2. The task must be finished in 1.5 hours. **Every 20 minutes delay will deduct 10 point of your final score.**

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1. Please consider array below:

var contacts = [

{

"firstName": "Akira", "lastName": "Laine", "number": "0543236543",

"likes": ["Pizza", "Coding", "Brownie Points"]

},

{

"firstName": "Harry", "lastName": "Potter", "number": "0994372684",

"likes": ["Hogwarts", "Magic", "Hagrid"]

},

{

"firstName": "Sherlock", "lastName": "Holmes", "number": "0487345643",

"likes": ["Intriguing Cases", "Violin"]

},

{

"firstName": "Kristian", "lastName": "Vos",

"number": "unknown",

"likes": ["Javascript", "Gaming", "Foxes"]

}

];

## Please create JavaScript function to return the value of other attributes when the input is firstName.

1. Please create a script to generate random number between two number.

(Example: If the input is 5 and 10, then create script to generate random number between 5 and 10)

1. Please create a script to validate phone number with allowed format as follow:

a) (021)-676767

b) 021676767

c) 021 676767

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1. Please create a script to calculate sum between 2 number.
2. Consider this array:

var oldArray = [1,2,3,4,5];

Please create to a script to add integer to each value of the array above. The integer value will be inputted by user.

1. Please create a script to convert temperature from Celsius to Réaumur.
2. Please consider array below:

var projects =

[ ['TPM', 19],

['Benefit World', 22],

['ROG', 2],

['EarnQuay', 2],

['Minicap', 2],

['BeaConnect', 2],

['Cyboz', 2],

['SG-Cap', 2]

];

The number in the array indicates project progress. Please create a script to calculate the progress percentage of each project.

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