

JavaScript Assignment-1

1. Working with variables

- Declare two variables: admin and name.
- Assign the value "John" to name.
- Copy the value from name to admin.
- Show the value of admin using alert (must output "John").

2. Giving the right name

- Create the variable with the name of our planet. How would you name such a variable?
- Create the variable to store the name of the current visitor. How would you name that variable?

3. What is the output of the script?

```
let name = "Ilya";

alert(`hello ${1}`); // ?

alert(`hello ${"name"}`); // ?

alert(`hello ${name}`); // ?
```

4. What are results of these expressions?

```
""+1+0
""-1+0
true+false
6/"3"
"2"*"3"
4+5+"px"
"$"+4+5
"4"-2
"4px"-2
7/0
"  -9\n"+5
"  -9\n"-5
null+1
undefined+1
```

Think well, write down and then compare with the answer.

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5. The postfix and prefix forms

What are the final values of all variables `a`, `b`, `c` and `d` after the code below?

```
let a =1, b =1;

let c =++a + ++a - a++; // ?
let d = b++ + ++b - b++; // ?
```

6. What are the values of `a` and `x` after the code below?

```
let a =2;

let x =1+(a *=2);
```

7. What will be the result for expressions?

```
5>4
"apple">"pineapple"
"2">"12"
```

8. What is this code going to show?

```
let fruits =["Apples", "Pear", "Orange"];

// push a new value into the "copy"
let shoppingCart= fruits;
shoppingCart.push("Banana");

// what's in fruits?
alert(fruits.length); // ?
```

9. Array operations.

Let's try 5 array operations.

1. Create an array `styles` with items "Jazz" and "Blues".
2. Append "Rock-n-Roll" to the end.
3. Replace the value in the middle by "Classics". Your code for finding the middle value should work for any arrays with odd length.
4. Strip off the first value of the array and show it.
5. Prepend `Rap` and `Reggae` to the array.

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The array in the process:

```
Jazz, Blues  
Jazz, Bues, Rock-n-Roll  
Jazz, Classics, Rock-n-Roll  
Classics, Rock-n-Roll  
Rap, Reggae, Classics, Rock-n-Roll
```